

# SCHOOL PROGRESS



*The C.E.A.-Kellogg Project In Educational Leadership*

*Toronto's Art Education In-Service Training Centre*

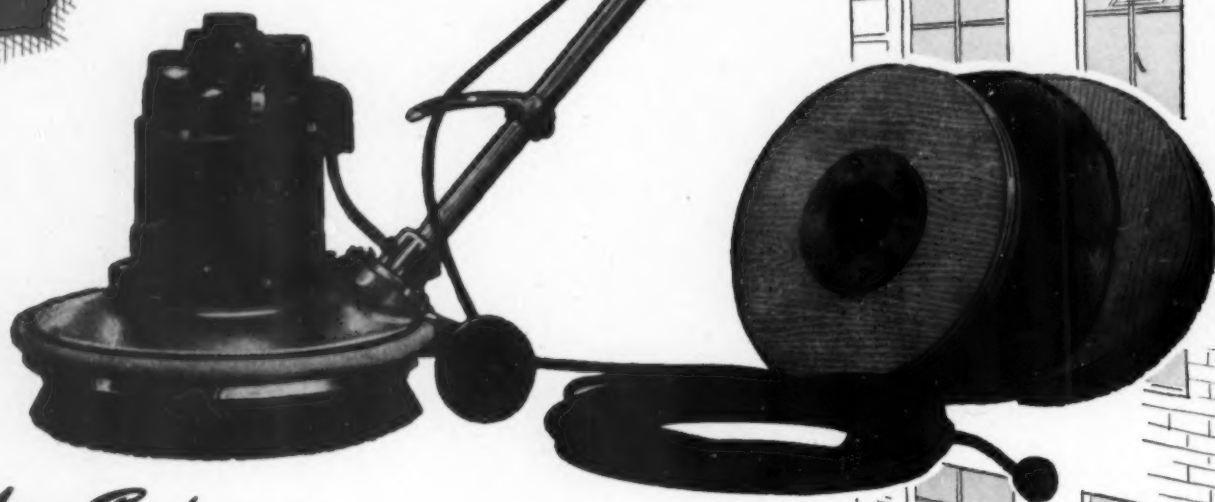
*How to Evaluate Educational Films for Classroom Use*

*The Dr. D. J. Brass Vocational School, Yorkton, Sask.*

**DECEMBER • 1952**

**THE NATIONAL BUSINESS MAGAZINE OF CANADIAN SCHOOLS**

# Still the Favourite



## MacEachern's "STANDARD 15"

MacEachern's Standard 15" Floor Machine scrubs—polishes—steel-wools. Outstanding in self-propelled floor machines, the Standard 15" is a dream to run—the operator does no work, all weight is centralized for maximum efficiency in scrubbing, polishing and steel-woolling.

All steel gear-box, heavy-duty motor—streamlined handle, dead-man heavy duty switch—white, non-marking bumper are only a few of the features of "the floor man's machine".

Hydro approved, fully guaranteed—the Standard 15" Floor Machine will give you years and years of quiet, trouble free operation. Write today for complete information.

★ ASK ABOUT OUR BRAND-NEW "X-IT" RUBBER TILE CLEANER . . . CONTAINS NO SOAP . . . IT'S WONDERFUL.

*Gordon A MacEachern*  
FLOOR FINISHING SPECIALISTS

TORONTO

HAMILTON

PORT ARTHUR

LONDON



# THE PREFERRED SCHOOL PLUMBING

**QUALITY.....THAT ASSURES**

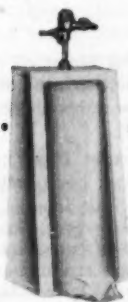
**LASTING SERVICE**

**LOWER UPKEEP!**

**CRANE LAVATORIES—** are preferred by schools for their simple, modern designs—their sturdy cast iron construction with long-lasting, easy-to-clean porcelain enameled finish—and their *Dial-ese* controls that operate at a finger's touch.



Sanitor Urinal



Sanitor Closet



**DEPEND ON CRANE FOR ALL YOUR SCHOOL PLUMBING NEEDS**



Dial-ese Faucet



Economy Shower



Clearstream Fountain

The record of service turned in by Crane plumbing in schools and universities is an impressive one—and a continuing one.

For example, Crane lavatories like those shown above will retain their utility and sanitary appearance through many years of service. Exclusive *Dial-ese* controls help reduce wear and consequent dripping—cut operating costs to a minimum. In these controls, a renewable cartridge that includes all working parts simplifies maintenance.

When it comes to plumbing, you can always count on Crane. See your Crane Branch or Plumbing Contractor.

CRANE LIMITED: General Office: 1170 Beaver Hall Square, Montreal  
6 Canadian Factories • 18 Canadian Branches

# CRANE

**VALVES • FITTINGS • PIPING  
PLUMBING • HEATING**

NATION-WIDE SERVICE THROUGH BRANCHES, WHOLESALERS and PLUMBING AND HEATING CONTRACTORS

DECEMBER, 1952

1-9218



IN COUNTLESS MODERN RESTAURANTS

## JOHNS-MANVILLE ACOUSTICAL CEILINGS

# Keep sound under control!



Cafeteria, International Aviation Building, Montreal, Que.

Cut down on distracting noise . . . increase efficiency! J-M Acoustical Materials can be quickly installed in new construction or over existing ceilings.

Because distracting noise is so harmful to efficient business operation, practically all new building specifications include acoustical ceilings for sound absorption. However, just because your present building was constructed before sound control became an established science, there is no reason for you to be handicapped by noise. You can have a Johns-Manville Acoustical Ceiling quickly installed over your present ceiling.

Whatever your noise problem, whatever kind of building, there's a J-M Acoustical Material that is *exactly right* to give you the best in noise quieting.

J-M Acoustical Materials include Fibretone® panels, Permacoustic® Tile, Transite® panels and Sanaoustic® perforated metal panels. For a free survey by one of our sound-control experts, or an informative free book on "Sound Control," write Canadian Johns-Manville, Dept. 580, 199 Bay St., Toronto.

A-576



### Johns-Manville

Pioneers in Sound Control

\*Trade Mark Registered

SCHOOL PROGRESS

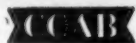


# SCHOOL PROGRESS

THE NATIONAL BUSINESS MAGAZINE OF CANADIAN SCHOOLS

No. 6 DECEMBER-JANUARY Vol. XXI

The Spotlight on Education .....	9, 10, 12, 16, 20, 42
Personalities; Shakespeare On Tour in Ontario; Spare the Rod and Save the Child; Vandalism and School Property; Postgraduate Scholarships for Physical Fitness, Recreation; South African Schools Teach Road Safety Rules; Swedish Study Circle Movement Celebrates 50th Anniversary; American Can Company Announces Scholarship Plan; Foreign Languages at the Elementary School Level; Psychiatry in School Seeks Reasons; What Does the C.A.A.E. Do?; The Beauties of Learning.	
Educationally Speaking .....	23
Toronto's Most Exclusive Art Salon .....	25
The C.E.A.-Kellogg Project in Educational Leadership .....	28
How to Evaluate the Education Film for Classroom Use .....	29
The Dr. D. J. Brass Vocational School Extension, Yorkton Collegiate Inst. ....	31
H. K. Black, Architect	
The Cameron Street Public School, Peterborough	34
John B. Parkin Associates, Architect	
Some Practical Notes on Capital Costs in the Construction of Modern Schools .....	36
A Multi-Purpose Classroom .....	38
The New Gibson High School, Gibson, B.C. ....	39
Harold Cullerne, Architect	
The 1952 Convention of the Canadian Education Association .....	40
DEPARTMENTS	
Brief Reviews of School and Professional Books ....	44
School Progress Quarterly New Book List .....	48
Radio and Visual Aids in the Modern School .....	52
Miscellaneous Items on New Products and Supplies	58
Advertisers' Index .....	62



*Although we do not necessarily agree with all statements made in the columns of "School Progress", we believe that they are of sufficient interest and importance to bring to the attention of readers.—The Editor.*

Editor ..... Harry F. Coles, B.A.  
Editorial and Business Offices....57 Bloor St. W., Toronto, Ont.

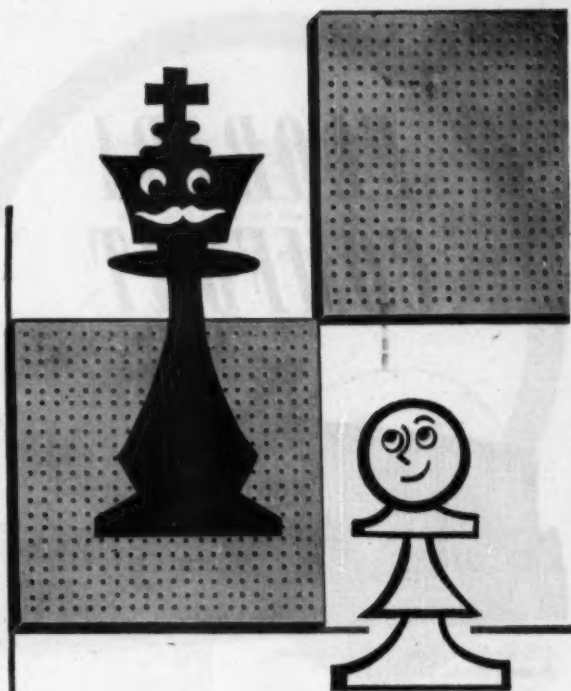
SCHOOL PROGRESS is an independent publication, for principals, headmasters, inspectors, school board chairmen, secretaries, business administrators and purchasing agents, building superintendents, school architects, superintendents, secretaries and directors of education, and school supply houses throughout Canada.

Authorized as second class matter by the Post Office Department at Ottawa, Canada, 1932.

## Subscription Rates

\$2.00 a year—single copies and all extra copies 35c. each

DECEMBER, 1952



## you can plan in quiet with ACOUSTI-CELOTEX

In all modern buildings where daily work or studies are carried on the plans should specify the right sound conditioning material. Acousti-Celotex is included in the plans of many architects because it does such a thorough job so economically. Acousti-Celotex is the genuine and original drilled fibre tile, the most widely used of all acoustical materials. It is easily and quickly installed and requires a minimum of maintenance. The



acoustical efficiency of Acousti-Celotex is substantiated by authentic tests and is not reduced by repeated paintings . . . It's your move next!

Call the AC Man for consultation and estimates

## DOMINION SOUND EQUIPMENTS LIMITED

HEAD OFFICE: 4040 St. Catherine Street West, Montreal

BRANCHES AT: Halifax • Saint John • Quebec • Montreal • Ottawa  
Toronto • London • Winnipeg • Regina • Calgary • Edmonton • Vancouver

DS-51-63



**FLORIDA  
COMFORT**

*in*  
**ARVIDA'S  
CLIMATE**

*L'Ecole Notre-Dame de l'Assomption,  
Hudson Street, Arvida, P.Q.*

**WITH**

**Webster  
WALVECTOR**

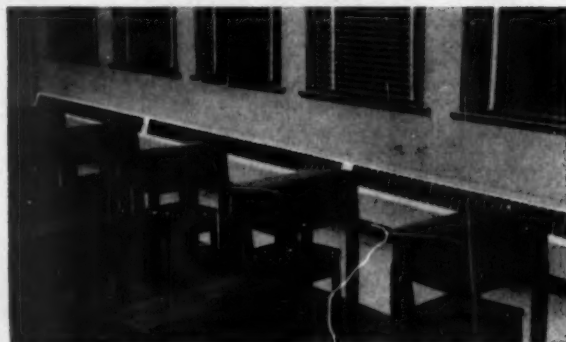
*Classroom showing installation along outside wall for even temperature.*

*Multiple unit keeps this large auditorium comfortable throughout.*



*Architects: Leonce Desgagne and  
Paul Boileau, Chicoutimi, P.Q.*

*Consulting Engineer: J. J. Fortin, Chicoutimi, P.Q.*



**HERE** is another instance, among the many hundreds in Canada, where the rigorous demands of climate—and the need for dependable comfort—are being met by Webster Walvector installations.

The flexible design of these convectors allows their use singly, or in multiple for long stretches of wall; running under windows, even through corridors—difficult to heat in even moderate climates. This is why they are so frequently chosen for schools, offices and commercial buildings.

The attractive enclosures add to the decorative scheme of the rooms, cover all piping and connections, and direct the heat away from walls—avoiding dust streaking.

The choice of single or double elements, the adaptation to either steam or hot water heating, make Webster Walvectors applicable to every building heating need.

For further details, write for copy of Bulletin No. B. 1561.



**BROTHERS LIMITED**

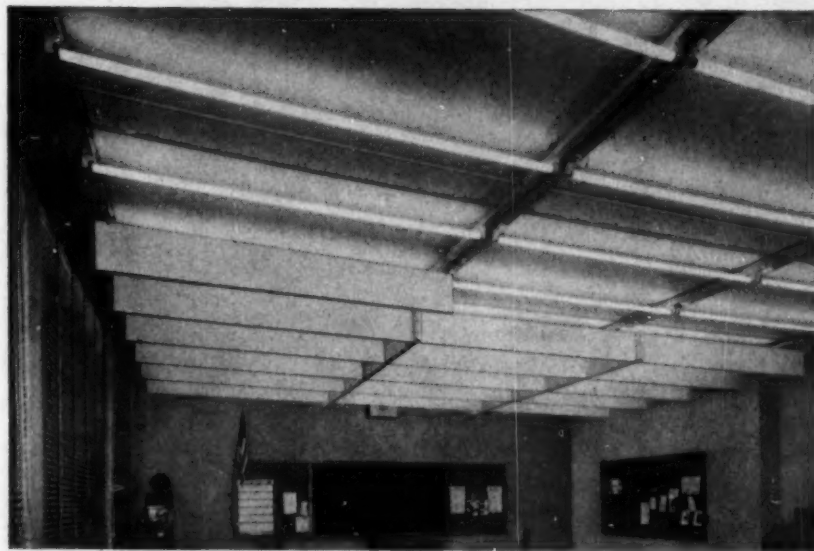
140 PRINCE ST. MONTREAL, CANADA

HALIFAX • SAINT JOHN • QUEBEC • ARVIDA • TIMMINS  
OTTAWA • TORONTO • WINNIPEG • CALGARY • VANCOUVER • ST. JOHN'S, Nfld.

DB-31M



Installation of acoustic light shields  
in high school room. Some of the shields  
have been removed to show the method of  
construction. System uses equally-spaced  
8-ft., T-12 single pin slimline lamps  
... provides from 30 to 60 footcandles  
average maintained quality illumination.



## ***curtis combines light and sound control***

Curtis light and sound conditioning provides recommended low-brightness illumination for true eye-comfort, plus ideal noise reduction.

One system operates at half brightness for greatest eye comfort, one with lamps at normal brightness providing 60 or more footcandles. Naturally, the effective simplicity of this two-purpose unit makes it less costly to install and maintain.

These shield-baffles—dustfree, flame-retarding and washable—are one more reason why Curtis Planned Lighting Units are

known and used from coast to coast.

For full details write today to



***Curtis***  
**LIGHTING**  
*of Canada Limited*

195 WICKSTEED AVENUE, LEASIDE, TORONTO 17, CANADA





This floor in the Van Horne School, Montreal, is a Humpty-Dumpty picture in Marboleum. With linoleum, you can make your floors tell a selling story, or strike the note of any public building.

## The floor, too, tells a story

HERE is a relatively new art, the art of designing "picture floors" with linoleum. It is a versatile medium. While linoleum is ideal for kindergartens, it is ideal also for a nursery or rumpus room. Linoleum can add immeasurably to the attractiveness of *any* room, private or public. In stores, hospitals, restaurants, theatres, it is being used to carry trademarks, monograms or other appropriate motifs. And, besides being attractive to look at, it is resilient underfoot, and *quiet*. It is economical, too, because it is easy to clean and long-lasting. Consult your architect or flooring contractor.

MARBOLEUM • JASPÉ LINOLEUM • BATTLESHIP (plain)

in tiles or by-the-yard — products of

DOMINION OILCLOTH & LINOLEUM COMPANY LIMITED

Montreal

*Time-Tested*

FOR ANY WEAR ON ANY FLOOR  
ANYWHERE

The durability and per-year economy of Dominion Linoleum have been proved by over forty years' wear on the floors of Canadian schools, stores, hospitals and public buildings.

1952

is our 80th Anniversary





## THE SPOTLIGHT ON EDUCATION

*Conducted by the Editor*

**Hon. Ivan Casey**, Minister of Education for the Province of Alberta for the past ten years, has resigned from that portfolio to become Minister of Lands and Forests in the same cabinet.

**Hon. Anders Aalborg**, Member of the Alberta Assembly since 1948 and principal of the Alexandra School at Rivercourse, Alberta, has been sworn in as Minister of Education to succeed the Hon. Ivan Casey.

**Dr. C. C. Goldring**, Director of Education for Toronto, was elected president of the Canadian Education Association at the annual convention held in Toronto in September.

**Mr. C. W. Booth**, former secondary school inspector, has been appointed assistant superintendent of secondary schools in the reorganization of the high school and vocational branch of the Ontario Department of Education.

**Mr. S. D. Randall**, secondary school inspector, has been appointed assistant superintendent of secondary education in charge of school organization in the Ontario Department of Education.

**Mr. A. M. Moon**, former assistant director of vocational education, has been appointed assistant superintendent of secondary education in charge of vocational courses for the Province of Ontario.

**Mr. C. H. Hulse**, of Ottawa was elected 1952-53 president of the Ontario Public School Principals Association at the annual convention held in Windsor in October.

**Dr. A. R. Lord**, former principal of the Vancouver Normal School and a past president of the C.E.A., has been named chairman of the Greater Vancouver Community Chest and Council's Committee for the prevention of Narcotic Addiction.

**Dr. William G. Carr**, associate secretary of the National Education Association (U.S.A.) since 1940, became executive secretary of the Association on the retirement of Dr. Willard E. Givens in August.

**Dr. H. H. Grantham** of the Vancouver Normal School is on loan for one year to UNESCO for service in Indonesia.

**Lt. Col. J. W. Inglis**, vice principal of the Vancouver Technical Institute, is on loan for one year to the International Labour Office in Geneva, Switzerland.

**Dr. Robert Westwater**, chief public school inspector in Ottawa, has resigned to join the United Nations Relief and Works Association in Beirut.

**Mr. W. T. MacSkinning**, public school inspector in Ottawa, has been appointed to succeed Dr. Westwater as chief inspector of public schools.

**Mr. Donald Ferguson** of the staff of Glace Bay High School, Nova Scotia, has been appointed principal of the school.

**Mr. W. Norman McGillivray**, immediate past president of the Saskatchewan School Trustees Association, was elected president of the Canadian School Trustees Association at their annual convention in September.

**Dr. Ernest Stabler**, former dean of the Sir George Williams College, Montreal, has accepted an appointment on the Faculty of Education at the Wesleyan University, Middletown, Conn.

**Dr. H. W. Curran**, associate professor of Biology, has been appointed Director of Extension at Queen's University, Kingston.

**Dr. E. R. Corbett**, former director of the Canadian Association for Adult Education, **Dr. A. G. Hooper**, former superintendent of secondary education for Ontario, and **Dr. M. E. LaZerte**, former director of education at the University of Alberta and past president of the C.E.A., have been made honorary life members of the Canadian Education Association.

## TEACHING ENTERTAINING



## INSTRUCTION RECREATION

**ELECTRO-VOX** brings the whole school within earshot or voice range of the principal.

Without leaving his desk, the principal may check class-room routine, supervise even, when the teacher is out of his class-room, give instructions to teacher or pupil: in short, be everywhere or anywhere his presence is required. No messenger is called, there need be none of this running up and down the corridors. A flash signal light gives warning that the Head has something to say.

**ELECTRO-VOX** School installation consists of: Central-control desk, comprising the intercommunication system, radio receiver, phonograph, and selector for eighty class-rooms or less.

Nation-wide **ELECTRO-VOX** has factory-trained installers and service men, a policy of undivided responsibility.

MAIL THE COUPON FOR FULL DETAILS

**Electro-Vox Inc.**

2222 Ontario St. East

Montreal

Please send the facts on how **ELECTRO-VOX** aids in school management.

NAME (of school) .....

ATTENTION .....

ADDRESS ..... City .....

S.P. 9-52

THAT ADDS TO ARCHITECTURAL DESIGN

# Crystaplex DOME SKYLIGHT UNITS

## PROVEN by actual installation

Warden Avenue School  
Scarboro, Ontario.  
All R.C.A.P. Radar Units  
Ontario and Quebec Provinces  
New Separate School  
Port William, Ontario.  
Albert Street School  
Fredericton, N.B.  
Savoy Plaza Apartment  
Toronto, Ontario.  
Bergman & Nelson Limited  
Red Lake Rd. Ontario.  
Kingston Separate School  
Kingston, Ontario.  
Fredericton High School  
Fredericton, N.B.  
City View Elementary School  
Ottawa, Ontario.  
Aylmer Public School  
Aylmer, Ontario.

### A new use for PLEXIGLAS in building

Crystaplex dome skylight units do away with dingy half lighting. Light-obstructing supports are eliminated when the material is formed into domes from a single sheet of shatterproof, watertight Plexiglas. Rain washes soot and grime away from the smooth curved surface. Installed in just a few minutes, Crystaplex skylights let in ALL the light.

Pre-fabricated by  
**CRYSTAL GLASS & PLASTICS LTD.**

130 QUEEN'S QUAY AT JARVIS TORONTO WA 2345-6  
708 WALNUT ST. MONTREAL FI 5201-2

## THE SPOTLIGHT . . . . .

Mr. C. A. Mustard of the Toronto Normal School has joined the staff of the C.E.A.-Kellogg Project as assistant to the director.

Brother Luke, director of the Institute Pedagogique Saint-Georges, has resigned from the C.E.A. Research Council.

Dr. Robert Vinette, assistant inspector general of Catholic Normal Schools in Quebec, has been appointed to succeed Brother Luke on the Research Council of the C.E.A.

Mr. George Boyes, formerly business secretary of the Canadian Association for Adult Education, has joined the staff of the Extension Department, University of Manitoba.

Mr. Frederick Adams, for 35 years secretary of the Maidstone School District of Manitoba, died this Summer.

Mr. Jackson E. Fawcett principal of Norway Public School, Toronto, died in Toronto, November 7th.

Dr. John Henry Riddell, for many years principal of Wesley College, and founder of Alberta College, Edmonton, died at his home in Carleton Place, Ontario, November 9th.

Prof. H. A. Innis, head of the department of Political Economy, University of Toronto, died in Toronto, November 9th.

Mr. Thomas Emerson Reid, former principal of Jarvis Collegiate Institute, Toronto, died at Toronto, November 7th, at the age of 80.

Dr. E. A. Hardy, former head of the English department Jarvis Collegiate, and for many years since retirement, member of the Board of Education, Toronto, died November 1st at his home in Toronto.

Mr. John Gilchrist, retired principal of Fairbank Memorial Public School, Toronto, died at his home in Toronto, November 10th.

Mr. John Madsen Danish born Canadian, widely known for his promotion of the folk school idea in Canada, died on July 7th while on a visit to Denmark.

Mr. E. V. Ross, eastern representative of the Community Programmes branch of the Ontario Department of Education, died at Ottawa on August 24th.

Professor John G. Rayner, director of the Extension Department of the University of Saskatchewan for thirty-two years, died June 30th last.

\* \* \* \*

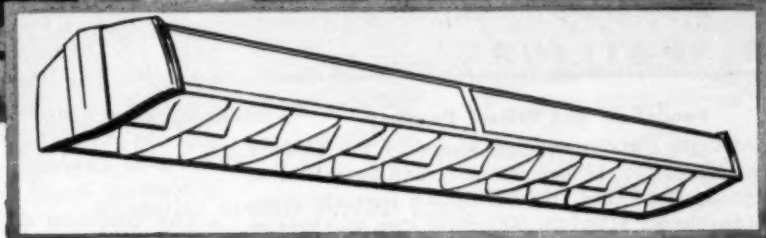
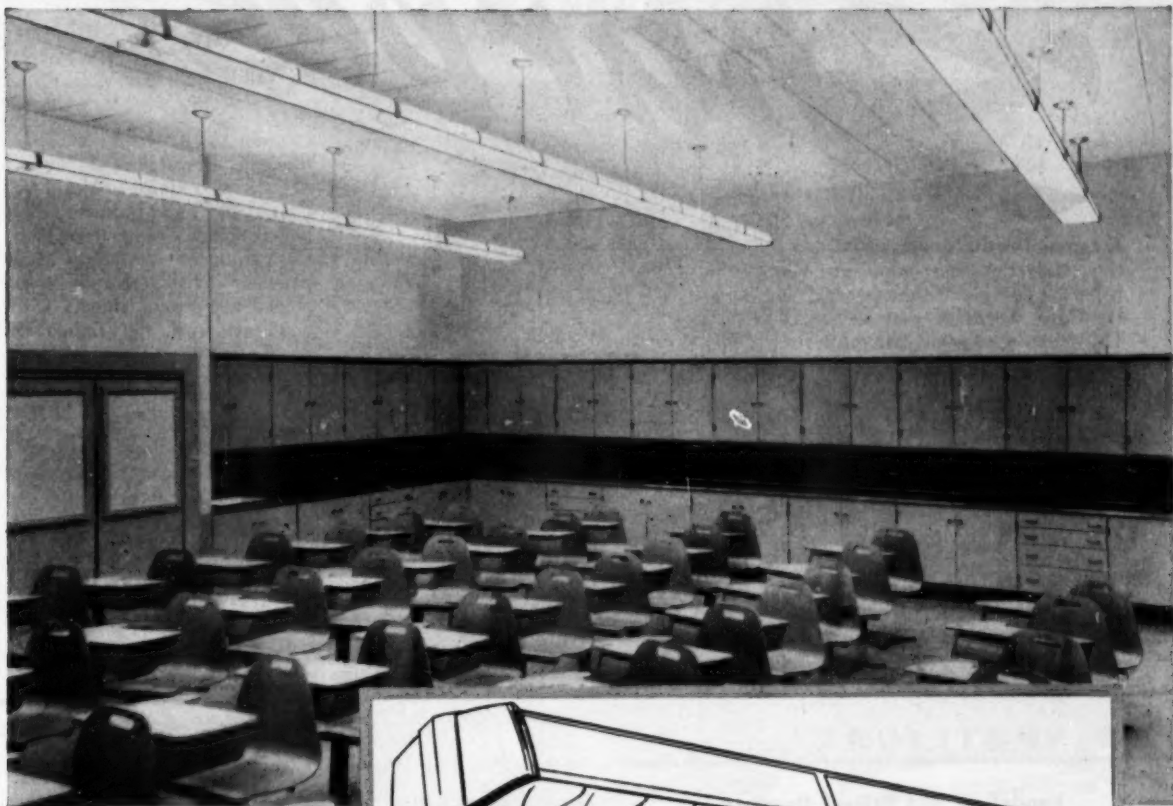
### Shakespeare On Tour In Ontario

School children in Ontario are fortunate in having the opportunity to see Shakespeare presented by a professional company of high standards. The Earl Grey Players Shakespeare Festival Company is this year taking "Julius Caesar" on tour to many schools in the province. This is the fourth year the Players have taken a play on tour and the demand and enthusiasm have increased each year. The Players, although recommended by the provincial Department of Education and the Toronto Board, receive no grant or financial aid with the production; the schools visited supply the auditorium, tickets, mimeographed programs, etc.

Parents who are envious of this opportunity provided their children might imitate the Home and School Association in one community which organized a ticket selling campaign among its members coincident with the school sale of tickets to students. There was no distinction in enthusiasm between adult and youthful sections of the audience.



# Make school work easier... on the eyes...



## GENERAL ELECTRIC

### "GRENADIER" LUMINAIRES

Designed to provide protection for young eyes during the most critical seeing years, the high-level, glare-free lighting from G-E Grenadier Fluorescent Luminaires greatly increases visibility, making classroom tasks easier. Comfortable illumination from the G-E Grenadier minimizes eyestrain and fatigue through quicker, more accurate seeing—assuring higher grades, happier, healthier students.

The G-E Grenadier distributes 50% of the light upward and 50% downward, effectively reducing brightness contrasts. The result is highly diffused, shadowless illumination on the desk top. Lamps are adequately shielded from view by a louver finished in baked white Glyptal enamel.

The G-E Grenadier has a lower initial cost, costs less to operate, and is easier to maintain. To protect young eyes specify G-E Grenadier Luminaires.

**CANADIAN GENERAL ELECTRIC COMPANY LIMITED**

HEAD OFFICE: TORONTO — Sales Offices from Coast to Coast

52-FJ-7

# Sharpest

**BOSTON KS**

Modern, streamlined — Model KS is a durable sharpener. The KS features a pencil guide that permits sharpening of eight sizes of pencils. With its nickel-plated receptacle, the KS is equipped with the famous Boston Speed Cutters.

A comprehensive and constructive study has been made entitled "Your Pencil Sharpener, Its Care, Location and Use". This booklet which is available to School Boards has been professionally prepared without biased propaganda. Write for yours to-day.

*The Luckett*  
LOOSE LEAF, LTD.  
MONTREAL, TORONTO, WINNIPEG  
VANCOUVER

**BOSTON**  
PENCIL SHARPENERS

## THE SPOTLIGHT . . . . .

### Vandalism and School Property

According to a statement just issued by the Toronto Board of Education, broken windows and break-ins on school property of that city during the past six years cost the taxpayers \$120,702. The chief item was broken windows—\$102,416; break-ins—344 illegal entrances in six years—caused damage totalling \$10,257 inside the school buildings; theft of equipment cost \$7,821; cash stolen was a mere \$784.

For the year 1951 the figures were: Glass breakage \$21,718; damage to school property \$2,436 and cash taken \$124.



### THE PERMANENT TRIBUTE

Tangible recognition of the efforts of the men and women who have devoted their lives to the education of the citizens of tomorrow is expressed in the bronze plaque. Write for illustrated catalog and information.

**Tallman Bronze**  
COMPANY LIMITED • HAMILTON ONTARIO

### Postgraduate Scholarships For Physical Fitness, Recreation

Scholarships amounting to \$4,000 for postgraduate study in physical education, recreation and allied fields are to be awarded again this year by the Department of National Health and Welfare.

The minimum award per person will be \$300 and the maximum \$1,200, with the deadline for applications January 3, 1953.

Since the scholarship plan was organized four years ago to help overcome the scarcity of professional people with advanced training in physical education and recreation, 24 persons have been awarded financial help toward obtaining postgraduate degrees in these specialties. The scholarships are for postgraduate study only and are restricted to Canadians with at least three years' full-time experience in physical education or recreation in Canada, including at least one year's experience since obtaining an undergraduate degree.

In awarding the scholarships, consideration will be given to the suitability of the candidate's proposed study in view of the work in which he will be employed and its contribution to his professional competence. Awards are based on recommendations of a committee of the National Council on Physical Fitness, and scholarship winners must agree to return to Canada to work for at least three years.

Application forms are obtainable from provincial fitness or recreation offices or from the national physical fitness division of the federal health department, Ottawa.

**NOW!**

**more than ever before—  
YOUR BEST BUY!**

**NEW  
GARLAND**

**in**

**Granite Gray**

**Black Japan**

**or  
Stainless Steel**

**Automatic**

**Oven**

**Lighting**



Model No. 183

**ECONOMY MINDED BUYERS! LOOK!**

*Look at Garland! Improved design . . . steps up operating efficiency, reduces maintenance to a minimum! New features . . . provide greater convenience, even greater flexibility! Engineering advancements . . . insure top performance and even longer life! And now you have your choice of three finishes: Black Japan, Stainless Steel, and our new glamorous Garland Granite Gray!*

*Choose Garland in the exact arrangement of open grate, griddle, and Spectro-Heat hot top sections you want. Leading restaurant equipment dealers everywhere recommend and sell Garland. All Garland Units Are Available in Stainless Steel and equipped for use with manufactured, natural or L-P gases.*

**PRICE REDUCED . . . on all Stainless Steel Models!**



**DM**  
PRODUCTS

Heavy Duty Ranges • Restaurant Ranges • Broilers • Deep Fat Fryers • Griddles •  
Broiler-Griddles • Baking and Roasting Ovens • Counter Griddles • Dinette Ranges

**GARLAND-BLODGETT LTD., 2256 Eglinton Ave., W., Toronto**  
Also Exclusive Distributors Blodgett Sectional Baking and Roasting Ovens in Canada





Boys will be boys . . . and boys mean noise. So do girls, too, for that matter, and "classroom hum" can be a distinct obstacle to easy learning. In overcoming the noise problem, Donnacousti Sound Absorbing Tile performs a valuable service in hundreds of schools, recreation halls, auditoriums and other public places across Canada.

This Canadian-made acoustic tile effectively smothers sound before it can rebound and amplify . . . has the added advantage of excellent light reflection.

Investigate the proven features of Donnacousti Sound Absorbing Tile today. Ask any Alexander Murray office for details and literature. You'll find that . . .

There's a place in your plans for

# DONNACOUSTI

SOUND ABSORBING TILE



*Alexander* **MURRAY** & Company  
LIMITED

HALIFAX • SAINT JOHN • MONTREAL • TORONTO • WINNIPEG • VANCOUVER

Division of: Dominion Tar & Chemical Company Ltd.

RIGHT IN YOUR OWN BACK YARD...

BY WEST



**THE MORAL TO OUR STORY?** Make the job easier for your maintenance personnel . . . and you *automatically* lower your maintenance costs. Let 'em wax as they clean—with a specially formulated material that performs 3 operations in one!

**LUSTRECLEAN** (pine-scented or plain) cleans . . . deodorizes . . . and deposits a light film of wax. Effective on any type of surface! No heavy scrubbing. No rinsing. Mop dry . . . buff the film lightly if a soft satiny finish is desired! Save time and labor cleaning floors, walls, woodwork—wherever excessive wear and heavy traffic has made daily maintenance a back-breaking job.

**LUSTRECLEAN** really cleans! Its emulsifying action loosens the most persistent dirt, grime . . . hard-to-remove rubber burns. No need to use harsh soaps or injurious chemicals. Proof? Ask for a sample and test it on the spots and blemishes your present cleaner won't remove!

*Pine LustreClean is only one of many WEST products formulated for the promotion of sanitation. Others include floor sealers and waxes . . . washroom service . . . disinfectants . . . deodorants . . . insecticides . . . cleaners . . . soaps . . . protective creams. West is the exclusive distributor of Kotex Sanitary Napkins sold through vending machines.*



5621-23 Casgrain Avenue, Montreal, Quebec  
(Branch Offices: Calgary, Edmonton, Halifax,  
Regina, Toronto, Vancouver, Winnipeg)

## SAVE \$ \$ \$ . . . WAX as you WASH

I'd like to try a sample of LustreClean

Pine-Scented ☐ Plain ☐

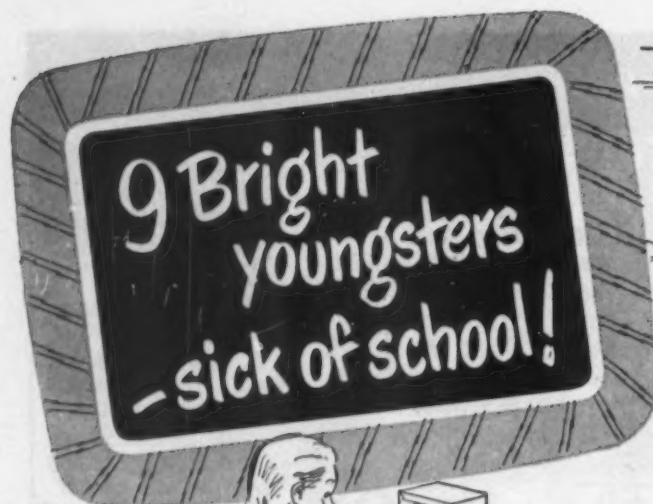
Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

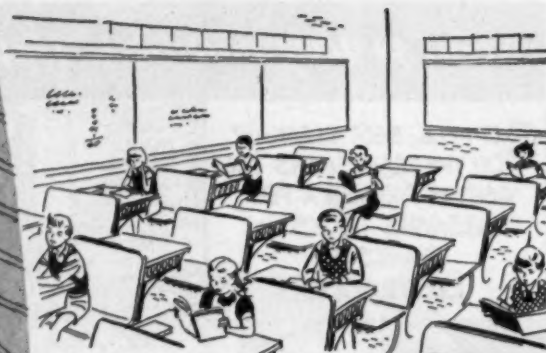
City \_\_\_\_\_ Province \_\_\_\_\_

Dept. 24



Interlake Paper Towels both Interfolded and Continuous Roll, are available. Order them by name—Interfolded Towels—Atlas & Simcoe Roll Towels—Peerless.

Contact your nearest Interlake Office today!



There are 9 students missing from this classroom. It could be coincidence . . . a religious holiday . . . or, quite possibly, the result of old fashioned washroom facilities. When single towels are used by everyone, disease is easily spread.

Interlake Paper Towels are the sensible way to protect students from hand-borne disease. Highly absorbent and extra strong, Interlake Towels are used only once . . . by a single child . . . and then disposed of.



**Interlake**  
Tissue Mills Co. Limited

Toronto: 330 Bay St.  
Montreal: 1061 Sun Life Bldg.  
Windsor: Interlake Tissue Mills Co. Limited  
Vancouver: 21 Robson St.  
Saint John, N.B.: Schofield Paper Co. Ltd.  
Tel. 6-7901  
University 6-7293  
24-530  
Mu. 2622  
3-2365

14-2

## THE SPOTLIGHT . . . . .

### South African Schools Teach Road Safety Rules

The National Road Safety Organization of South Africa in conjunction with education authorities has just published a manual and syllabus for road safety instruction in all South African schools.

The syllabus is divided into three main categories. For children up to eight years, safe walking habits only will be taught. The section for children eight to twelve years covers safe walking and cycling instructions, while for children over twelve years additional information is given on good driving habits.—Unesco.

\* \* \* \* \*

### Swedish Study Circle Movement Celebrates 50th Anniversary

The Swedish Study Circle Movement, now consisting of 32,000 circles with 400,000 participants, celebrated its 50th anniversary on October 4.

The first circle was founded in 1902 by the late Oscar Olsson, in the University town of Lund. The present Minister of Finance, Per Edvin Skold was one of the pioneers, having started a study group. While public grants were scarce at the beginning, the movement this year received \$160,000 for administrative purposes and \$460,000 for study activities proper. The largest of the 13 co-operating organizations is the Workers' Educational Union. Among subjects studied by the circles, languages take the lead by 20.4 per cent, followed by art, 20 per cent.—Unesco.

### American Can Company Announces Scholarship Plan

A university scholarship program for sons and daughter of employees as well as for young employees has been established by the American Can Company, Hamilton, Ontario.

Under the 1953 program each winner may choose any school in Canada belonging to the National Conference of Canadian Universities or any approved privately controlled four-year college or university in the United States. Those eligible to apply for the Canadian scholarship are sons and daughters of employees of the company's Canadian Division who had completed at least five years of accredited service with the company on Sept. 1, 1952 and young employees of the company who had not reached their 23rd birthday by Sept. 1, 1952, and have at least one year of company service.

The firm's Canadian operation consists of factories at Hamilton, Simcoe, and Chatham, Ont., Vancouver, B.C. and Montreal, Que.; a machine shop at Niagara Falls, Ont., the Canadian Division office at Hamilton, and sales offices at Vancouver, Winnipeg, Toronto, Hamilton and Montreal.

Winner of the 1953 scholarship will be chosen by a scholarship selection board composed entirely of persons in the educational field who have no employment connection with the American Can Company.

For each student enrolled in a college or university under the scholarship program the company will make a supplementary contribution of \$500 a year toward the institution's general educational budget.



# C-I-L COLOUR CONDITIONING

## *in Queen Elizabeth School*



**KINDERGARTEN.** Ceiling finished in C-I-L Flat Wall Paint White; walls in equal parts C-I-L Semi-Gloss Enamel Dusky Rose and White; doors and trim in equal parts C-I-L Semi-Gloss Enamel Ocean Green and White. Painting contractor: JOHN BAVINGTON LIMITED, Toronto.



**PLAYROOM.** Ceiling C-I-L Flat Wall Paint White; walls equal parts C-I-L Semi-Gloss Enamel Ocean Green and White.



**AUDITORIUM.** Ceiling C-I-L Flat Wall Paint White; walls equal parts C-I-L Semi-Gloss Enamel Ocean Green and White; doors and trim C-I-L Semi-Gloss Enamel Ocean Green.

Belleville's new Queen Elizabeth School is an excellent example of the modern trend in school construction. A one-story, T-shaped structure with Haydite Block walls and concrete ceiling, it was designed by W. A. Watson, Belleville, Ont., and built by the St. Lawrence Contracting Co. Limited, also of Belleville. It contains 12 classrooms, an auditorium, kindergarten, playroom, principal's office and service rooms.

### **C-I-L Interior Finishes used throughout**

As in so many other modern schools, C-I-L Interior Finishes were used throughout, and colours selected in accordance with the scientific principles of C-I-L Colour Conditioning.

**C-I-L ADVISORY SERVICE** The Paint and Varnish Division of CANADIAN INDUSTRIES LIMITED welcomes the opportunity to assist in developing colour schemes and suggesting suitable products. Write or phone your nearest C-I-L District Office. Halifax, Montreal, Toronto, Winnipeg, Regina, Saskatoon, Calgary, Edmonton, Vancouver.



**CANADIAN INDUSTRIES LIMITED • MONTREAL**

*"Serving Canadians through Chemistry"*

EE-PVR-9

Tune in to C-I-L's "Singing Stars of Tomorrow", Sunday evenings, Dominion Network.



**-Teacher's  
pet in  
every  
school**



This attractive modern desk design is made from Canadian Hardwood throughout. Light Oak Finish. Hand-rubbed top, snag-proof rounded edges over-all:

Other features of the No. 24 Desk include: general locking device for all drawers, sliding writing leaf, dovetail construction, under frame reinforced with footrest. It's easy to see why the Moyer No. 24 Teacher's Desk is considered such a great furniture value by Canadian schools everywhere. Dimensions of No. 24 Desk — Surface 42" x 26" — Height 30"



#### **FOLDING CHAIRS**

Moyer offers both tubular steel and wood construction. Both types are designed with maximum strength, safety and comfort in mind. Remember, too, that both types fold flat and stack flat in most compact space when not in use.

#### **KINDERGARTEN FURNITURE**

Moyer kindergarten tables and chairs have gained a well-earned reputation in schools from coast to coast as the finest school furniture of its type.

Kindergarten Table No. 120 — 20" x 36" x 23" high

Kindergarten Chairs — Two types, both supplied in two sizes — 12" and 14" high

- To avoid disappointment caused by possible delays in delivery you will be wise to order School Furniture as far in advance as possible. Discuss your requirements soon with your nearest Moyer branch office. You are under no obligation when you ask for suggestions and more detailed product information.

# **MOYER**

*Everything for the school since 1884*

## **SCHOOL SUPPLIES LIMITED**

**106-108 YORK STREET, TORONTO**

MONCTON • MONTREAL • TORONTO • WINNIPEG • SASKATOON • EDMONTON

# NOW 83% \* A NEW PEAK OF LIGHTING EFFICIENCY for Schools



## THE DAY-BRITE LUVEX

The sturdiest...  
the finest performing...  
the most attractive Slimline feature yet!

**A NEW SLIMLINE MASTERPIECE!** Here, at last, is a fixture that gives you everything you expect of Slimline lighting. The LUVEX is the result of years of planning and engineering... a combination of quality, efficiency, ease of installation and maintenance never before available in Slimline lighting.

**96" OF RUGGED QUALITY!** Every inch of these handsome 8 ft. LUVEX sections is typical Day-Brite top-quality. The sturdy truss-like chassis will not bend, sag or flex. Enclosure and louvers are completely interlocked into a rigid one-piece unit.

**EASY, LOW-COST INSTALLATION!** The chassis goes up first suspended by "A-J" Adjustable hangers. The enclosure, supported by installation chains, locks firmly into place by means of four hand-operated snap latches.

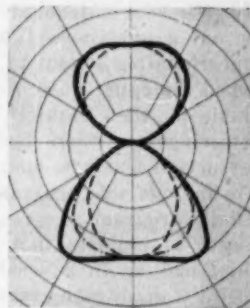
**LOWEST-COST MAINTENANCE!** Maintenance is inexpensive. Amazingly simple! So simple, in fact, that the LUVEX can be relamped and cleaned without disturbing a single part of the fixture... without so much as touching a latch, chain, bolt or nut.



Light lightens the teaching job! LUVEX lighted classrooms mean happier, more co-operative students who learn easier.

### Unbiased test rates Luvex an unusually efficient fixture

Reputable manufacturers back up their claims with facts. The LUVEX was given a thorough performance test by the Electrical Testing Laboratories, a competent, unbiased agency with 40 years of testing and research experience. The ETL LUVEX



report reveals an 83% efficiency, a remarkable engineering achievement for a shielded Slimline fixture. Copies of the ETL report are available on request.



**AMALGAMATED**  
ELECTRIC CORPORATION LTD.

Amalgamated Electric's experience in the school lighting field is at your service. Please call or write the Amalgamated office nearest you.

MONTREAL • TORONTO • WINNIPEG • CALGARY • VANCOUVER



# ONE SOURCE OF SUPPLY — ONE ACCOUNT

• For Your School Work Shop •

**WOODWORKING MACHINERY**

**METAL WORKING EQUIPMENT**

**FORGE EQUIPMENT and TOOLS**

**HAND TOOLS — WORK BENCHES**

**A Complete Selection of School Shop Supplies**

FOR

**ORDERS — SERVICE — QUOTATIONS**

PHONE OR WRITE

**JAMES T.**

**DONNOLLY**

**SUPPLY HOUSE FOR SCHOOL SHOPS**

**COMPANY LIMITED**

**321 KING ST. WEST, TORONTO**

**Telephone: Em 3-5225**

## THE SPOTLIGHT . . . . .

### Foreign Languages at the Elementary School Level

Foreign languages are now taught in the elementary schools at Washington, D.C. as an integral part of the language-arts work in all elementary school classes. Before issuing instructional guides for the new language programme, and as a further check on its practicability, the superintendent of schools at Washington sent out a questionnaire to parents and teachers. These questionnaires sought to discover how many parents wished the opportunity for learning a language to be available for their children and how many teachers had themselves sufficient language training to give such instruction and how many of the latter would be willing to include this program of enrichment in their regular daily program on a voluntary basis. The replies would seem to indicate that the public is ahead of curriculum makers in general in their awareness of the need for a great many individuals to know at least one language other than their own in order to be equipped to live as effective citizens in the present kind of world. The replies yielded the following statistics:

22,628 parents wanted a foreign language taught;  
110 parents **did not** wish a foreign language taught;  
10,441 parents asked for French;  
10,138 parents asked for Spanish;  
2,021 parents asked for German;

Teachers offering to give instructions in French numbered 171.

Teachers offering to give instructions in Spanish numbered 118.

Teachers offering to give instructions in German numbered 58.

A number of parents asked for Latin, and numerous teachers volunteered to give the instruction in Latin. These are not included in the statistics merely because the Latin materials are designed not to teach Latin as a language but to make children aware of the Latin all about them in their daily experience and to understand how it makes them more effective users of English. Since these materials can be used by any teacher, whether he has studied Latin or not, it is hoped to make them an integral part of the regular language-arts work in all elementary classes.

### Psychiatry In School Seeks Reasons, Cures

The greatest thing that psychiatry can contribute in our schools is to insist that the proper attitude to take toward truancy or any other behavior problem is one of asking "Why does this happen?" and not "What punishment shall we use?", says Dr. R. O. Jones, professor of psychiatry at Dalhousie University, writing in the current issue of *Health*.

Dr. Jones insists that reliance upon "a big enough stick applied hard enough" is no solution to school misbehavior. There may be any one of a score of reasons for truancy, for example—poor eyesight or poor hearing, lessons that are too easy for one individual or too difficult for another, or a variety of family troubles at home that prevent a child's concentrating on his work.

(Continued on page 42)

**EDWARDS ...**  
**times**  
**and protects**



**JACQUES CARTIER NORMAL SCHOOL**  
**MONTREAL**

ARCHITECT: Gascon Parent

CONSULTING ENGINEER: Lafrancois & Laffamme

ELECTRICAL CONTRACTOR: Chas. A. Grothe

Once again Edwards Clock Systems and Edwards Fire Alarm Systems have been chosen to time, and protect a new and ultra-modern school.

Edwards Synchromatic Clock Systems supply split-second accuracy because they are controlled by the famous self-starting Telechron synchronous motor. There are no master clocks, temperamental electronic devices or delicate pendulums to interrupt their operation.

Edwards Fire Alarm Systems are chosen to protect many schools and public buildings for their absolute dependability, easy and simple action, and their up-to-date design.

For further technical data, contact your nearest Edwards representative.

**EDWARDS** OF CANADA LIMITED  
 OWEN SOUND, ONTARIO  
 SAINT JOHN • MONTREAL • TORONTO • WINNIPEG • EDMONTON • CALGARY • VANCOUVER



## Only Honeywell has this "magic" ventilation control that helps stop classroom shivers!

IT'S NOT ALWAYS this easy to see when a student is uncomfortable. But if you have a slow-acting ventilation system, one that allows temperatures to "lag" behind the thermostat—chances are your students may be uncomfortable even if they don't show it!

Now, the remarkable new Reset Relay, made only by Honeywell, prevents this cause of classroom shivers through instant control of the ventilator, and keeps room temperatures from "seesawing." This swift, dependable operation—almost magical in accuracy—keeps temperatures *constantly comfortable*, even in coldest weather!

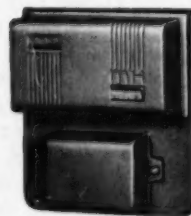
This is but one example of Honeywell's *better* temperature control. Today, in hundreds of schools, Honeywell

systems are providing the level temperatures, adequate fresh air and proper humidity so essential to proper classroom environment. And Honeywell controls have been proven to be *more accurate, more dependable!*

Whatever your requirements—electronic, electric or pneumatic controls for heating, ventilating, hot water, and refrigeration equipment—Honeywell can meet them—and also offer you the valuable technical advice and service of an experienced staff located in our 12 offices from coast to coast.

So whether you're modernizing or building a new school, call Honeywell. Or for a copy of the booklet "Honeywell Control Systems for the Modern School," write Minneapolis-Honeywell, Leaside, Toronto 17.

*Now...  
constant  
comfort  
in any  
weather!*



Whether your school is old or new, you can install this Reset-Relay—the finest pneumatic control ever developed. (Shown above under the Honeywell Gradustat.) It can be used on pneumatic heating, ventilating or humidity systems—wherever a close control of temperatures is desired. It reduces temperature "lag" by 90%, gives greater stability with no "hunting" or "cycling," and allows you to keep the temperature constant no matter how severe or mild the weather.

**MINNEAPOLIS**  
**Honeywell**

*First in Controls*



OFFICES IN: HALIFAX • QUEBEC • MONTREAL • OTTAWA • TORONTO • HAMILTON • LONDON • WINDSOR • WINNIPEG • CALGARY • EDMONTON • VANCOUVER



# EDUCATIONALLY SPEAKING

## All The Schools Are To Blame!

Quite an educational furor was created last year at the University of Toronto when a test in English was sprung on all first year students with disastrous results. 63% of the students failed the examination, and were detailed to special remedial classes. The report of the debacle reverberated all across the country, and many other Canadian universities began to check up on their student body too. Altogether a sorry state of affairs was uncovered in which modern high school graduates were generally tagged as illiterates in the ordinary use of the English language.

As a consequence of this discovery the secondary schools have been widely criticized up hill and down dale during the whole year since for doing a particularly poor job of teaching the basic skills of reading, writing and arithmetic.

The argument has been loud and long but it would appear that perhaps some good has come out of it all because the University of Toronto imposed an English test on freshmen again this year with considerably better results. Students were required in the 1952 test to define words, take dictation, condense a four hundred and fifty word passage on the English language into two hundred words, and outline a plan for an essay on a wide choice of subjects. In 1951 the percentage of failures was 63%, while this year, 1952, it was only 43%, a solid gain of 20% for the students and their high school teachers. Perhaps the high schools really did need stirring up to more effective teaching of English, as the results suggest.

And now, "Saturday Night," the widely read Canadian weekly carries the subject a step further by taking a sly poke at the schools of higher learning, putting some of the blame for the poor teaching of English on the universities themselves, for the universities actually teach the teachers who teach the students.

Here is what the editor says:

"Extra attention to English in the past year has resulted in a pronounced improvement in the English standing of University of Toronto freshmen. The failure rate is still high, the weakness in spelling still persists, but the improvement shows what can be accomplished when a university president draws attention to a basic need in education.

"President Sidney Smith deserves credit for his bold exposure last year of English standards among the freshmen students. But we don't think that the president has gone far enough. We think that he should focus attention on the Faculty of Arts at the University itself. The other faculties are all alive to the importance of English.

"No doctor, engineer, forester or dentist can now graduate without taking English as a major subject for at least a year. But in the humanities, which the president stresses, English remains an optional subject.

"It is hard for a layman to understand why a science student taking chemistry must major in English while an arts student in Chemistry does not need to bother. It is equally hard to figure out why a forester must take English while a lawyer may graduate without having written an English essay since high school days.

"We do not believe Dr. Smith feels that philosophy, mathematics, biology, history, political science, the languages—ancient or modern—are a substitute for English. But the arts calendar, as now laid out, makes it difficult for many honour students to take English.

"It is a pity that a test of English knowledge cannot be taken after a student graduates from the University as well as when he enters."

It is a simple fact that none of the schools, elementary, secondary or on the university level, is blameless in the matter but must each bear its fair share of responsibility.

\* \* \* \*

## They Have Trouble In England Too!

That they are deeply concerned about the general slackness in the teaching of the three Rs in the schools of England as well as we are in Canada, is evident from a letter in a recent issue of the London Times Educational Supplement. The correspondent calls it "clerical treason" and complains bitterly as follows:

"It should surely be obvious that the accurate use of language is essential to progress in any branch of study. Yet, as the years pass, the human material entering the grammar schools is continually less able to read and write, and this lack of skill in the use of the most essential of all tools is making the efforts of teacher and pupil alike more laborious than it need be. What is the use of trying to teach French, history or science to children who cannot spell, or write a reasonable sentence, or even comprehend the meaning of what they read?

"I am a science teacher, yet I have to spend more and more of my time teaching the fundamentals of our mother tongue and correspondingly less in teaching science. Often my most promising pupils are defeated and frustrated because of the lack of ability to use their own language. Is it not high time that all teachers, lecturers and administrators realized that the teaching of English language must be the first endeavour of us all? The attainments of our children

are lower than they used to be, and children are no happier when they reach adolescence without the skill in English to enable them to tackle the subjects of their choice."

And the editor of the Times takes the subject further in his leading editorial in part as follows:

"It is commonly said that the obvious confusion of contemporary educational thought is due to the no less obvious confusion in our society over human ends. This is no doubt true, but if it contains an implied comparison with a more straight thinking past it leaves out of account one prime consideration. For the first time in history the attempt is being made to educate every child, not with one eye on a special place in an established social order, but just, as the phrase is, 'for life'—and that in a democracy may mean any kind of life, from professor to dustman, from minister to trooper. The clear-cut programmes of the past give no precedent. They were all for the education of pre-elected children for antecedently defined stations in life... But clarification by limitation would be a breach of the rules to which a twentieth-century democracy must play in ordering its school system. Differentiation will come as a necessity in the later stages of education (though it troubles many a democratic conscience), but at first the future social status of the pupils gives no anchorage to their educational course, for (ideally) their status is not yet determined. Education is of future 'men and women' or 'citizens'—not labourers, merchants, managers, or servants.

"The phrase education 'for life' is provokingly vague. But vagueness is its purpose. It describes an objective that is as indeterminate as the lives which the children undergoing it will ultimately lead are undetermined. Some vary the phrase by the mention of 'good citizen' but again this leaves just as many questions open except one or two about the speaker. Christians, of course, look beyond society for their educational principles. But though, it is true, education should contain elements that transcend social matters, it must be shaped in part by considerations of future, as well as after, life. For democrats, as has been suggested, these considerations are extremely indefinite.

"Nevertheless it ought to be possible to arrive at a content for the primary stage of education which is suitable, because it is necessary, for everybody: one which every normal child should be given, though some will master it more easily than others. It will be based on whatever elementary skill and knowledge is indispensable for further improvement, moral and intellectual—not, be it noted, of whatever is indispensable for the least exacting walks of life that society has to offer. The long preoccupation with teaching methods and the distracting controversies it has kept alive would have been justified if what ought to be taught had been settled with any confidence. But that is not the case. The all-important question has received scant attention in this country since democratic practice has posed it in an entirely new form. Now it seems this neglect is being noticed. The attention paid to the alarmingly worded revelations of Army officers about literacy; the recent conference of teachers in Warwickshire on 'reevaluation of the three Rs'; anxiety about the influence of secondary selection tests on the

primary curriculum—these are some of the signs that attention is being turned to matters that surpass in importance even a school's duty to promote the health and happiness of its children. Universal education in a democracy poses acutely the question of what ought to be taught."

\* \* \* \*

#### Illiteracy Lifts Its Ugly Head in Canada

A senior officer of the Canadian army has made some startling revelations regarding youths enlisting in our armed forces. He is reported to have stated that the Canadian army rejects more recruits than it accepts—there is a deplorable lack of cleanliness among the troops, an apathy towards sport, a distinct lack of ability to look after themselves, a tendency towards absenteeism and downright illiteracy.

On illiteracy he says that of one group of six hundred men, forty-seven were found to have a grade 4 education or less, and all of them came from areas where educational opportunities were of a high standard.

One is tempted to take this statement of illiteracy with a very large grain of salt except for the fact that the colonel's pronouncement on Canadian youth is backed up by totally independent but almost identical statements by ranking military authorities in both Great Britain and the United States. What price our boasted universal education, expensive schools and the modern curriculum! Is there something wrong somewhere in our educational systems?

\* \* \* \*

#### Are School Sports Making Poor Sports?

Mr. R. E. K. Rourke, Headmaster of Pickering College, Newmarket, Ontario told a meeting of the Toronto District Urban Trustees' Association last month, that "Sports are teaching many Canadian high School students poor sportsmanship," and added, that adults were largely to blame.

Continuing, he said: "Irresponsible adults encourage boys to think that when they lose, they are being cheated. Consequently, the boys squawk and complain when the game is going against them. They win arrogantly or they lose with alibis. Parents and spectators back the boys who object to every decision of the referee that is not to their advantage. While sports can be an excellent influence in character building, their influence has been exactly the opposite in half the games I have seen recently.

"Good teachers can do a better job of developing youngsters' characters by example than by lecturing. Too often the things intended to develop healthy attitudes—such as sports—backfire.

"In many fields the way a thing is taught is at least as important as what is taught."

\* \* \* \*

#### Another NEW Subject For The Modern Curriculum

According to a report in "Newsweek" of November 17th, teen-age students in the United States will be able to learn how to fill out income tax forms while in high school. The Internal Revenue Bureau at Washington has prepared a course on the subject and shortly will mail instructive material to school principals throughout the nation. Private schools can get the course on request.



## **TORONTO'S MOST EXCLUSIVE ART SALON**

### ***The Art Education In-Service Training Centre For Teachers***

**P**ERHAPS the most exclusive art gallery in Canada is to be found on the third floor of the King Edward Public School in Toronto. Its walls are lined with paintings on exhibit—portraits, street scenes, landscapes, historical scenes and squiggly lined symbolism. Its display cupboards are filled with examples of talented sculpture and paper modelling. The artists whose works are hung in this art salon all have one thing in common—they are pupils of the public schools of Toronto, anywhere between kindergarten and Grade 8, between 4 and 15 years of age.

As far as Toronto's art supervisor, Howard Dierlam, has been able to find out, this school gallery is the only one on the continent. It is one of the reasons why Toronto is an acknowledged leader in art education.

The exhibit is a cross-section of school work and reflects the new philosophy behind the teaching of art. Gone are the days of tedious copying and mechanical reproduction. The emphasis is on creative work, right from the beginning of school.

In explaining the new theory, Mr. Dierlam emphasizes that the schools are not trying to make artists out of the pupils. The big aim is to instill in them an appreciation of art which will flower in later years.

Mr. Dierlam feels that art, as taught now, even helps children later with their written and spoken English. They have to learn to organize their thoughts in a logical way to paint, as well as to speak and to write.

In the not-so-old days, the aim was to get a painting as photographically like the original as pos-

sible. The rules given the children were often not understood by them and only confused and bewildered them.

But the pupils are not allowed to splash paint around in every which-way. Teachers guide them within broad lines, building up mental images in their minds.

The teachers need guiding, too, to keep abreast of things. That's where Mr. Dierlam and his two assistants Miss Florence Blair and Mr. Tom Martin come in. They visit all public school teachers in the city and assist them in their classroom work.

The teachers also come down to the King Edward gallery and try out new ideas. They hear lectures and see exhibits brought in from other cities to compare with their own. It is a centre of real inspiration for them in their work.



## As An Art Education In-Service Training Centre For Teachers

THE Department of Art Education, Toronto Board of Education, has recently established an in-service training centre at King Edward School, Bathurst St., Toronto, which is used to keep teachers informed of progress in Art Education, and to give direction to the teaching of Art.

Two adjacent standard classrooms were re-modelled by cutting an archway between the rooms and re-surfacing the walls with "tentest" covered with linen, to provide floor to ceiling display areas. A narrow passageway was left behind the display areas covering the windows to allow for a working space with a sink and storage facilities. The end wall of each room has a built-in display case with indirect lighting and sliding glass doors. Special overhead lighting has been provided and the rooms are also fitted with screens for showing slides and films.

Furniture and equipment in the rooms include large folding tables, nesting chairs, a ceramic kiln, a

zinc-lined bin, instructors demonstration units, movable display boards, and easel blackboards.

This centre is used as an Art Gallery, a lecture hall, a workshop, a conference room and a demonstration teaching centre.

Exhibits of children's Art work, paintings and crafts, are on display at all times either of local, national, or foreign origin. Some of the exhibits which have been on view came from areas in United States which included New York City, Chicago, Detroit, Los Angeles, Philadelphia, and Baltimore. Foreign exhibits were from London, England, France, Italy, Czechoslovakia, Germany (Western Zone) and Japan.

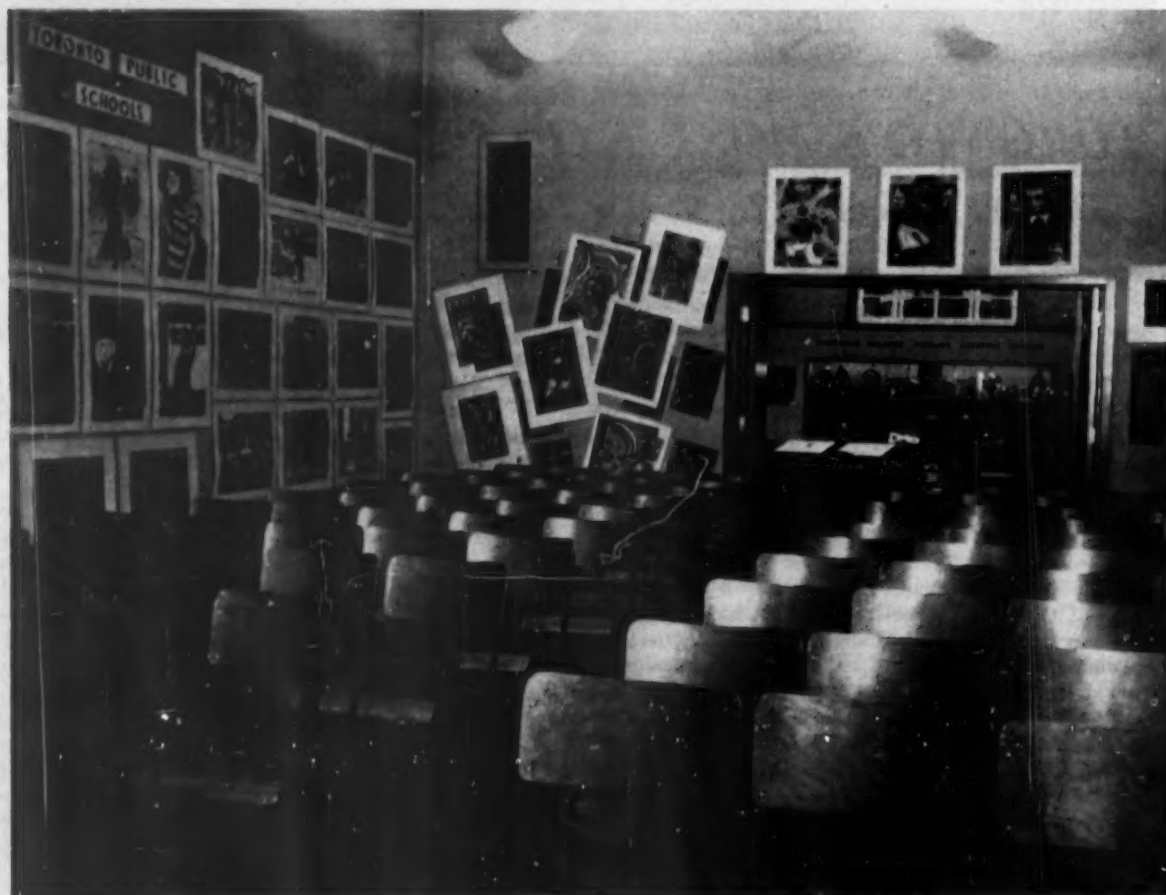
Lectures are given here by Howard C. Dierlam, Supervisor of Art, and his assistants Miss Florence Blair, and Mr. T. M. Martin, on the modern philosophy in Art Education. Bulletins and programmes of study are issued and discussed as an aid to teachers. Addresses have also

been given by Art Directors from other centres. These have been, Miss Helen Copley, Art Director, Detroit, Michigan; Miss Anderson, Art Director, Los Angeles; the late Miss Virginia Murphy, Art Director, New York City; and Dr. Welling, Teachers' College, Wayne University, Detroit.

Workshops for teachers, known as "Try Your Hand" classes are also arranged. At these classes teachers actively participate in Art activities and thus gain first hand knowledge of media and materials which they propose to use later with their students.

Teacher-pupil demonstrations form part of the in-service programme, which are most popular. Groups of children with their teachers carry on Art or Craft projects as they would in their classroom for other teachers to observe. Opportunities are provided for conferences with the demonstrating teachers.

To encourage the development of



## Understanding Children's Paintings As a Means of Expression

In order to fully appreciate and understand children's paintings, it is necessary to take into account the physical immaturity and mental development of the child at the various age levels, and accordingly not expect skilful rendering and technical perfection.

Children at an early age are egocentric and highly individualistic. They are not much concerned with realistic representation or perfection, but use drawing and painting rather as a means to give expression to their thoughts and ideas. Any adult interference to improve their output only serves as an interruption of their thought, retards expression and is resented. Where the drawings fail to communicate the ideas intended, verbalization aided by a vivid imagination usually fills in the gap. This completely satisfies the children.

The subject of their drawings centres around themselves, their homes and home environment.

However as children mature and are more fully aware that their efforts fail to adequately express and communicate their ideas, they seek guidance which very often is of a technical nature. Any information that will improve their work is welcomed and should be provided, so that progress and development will continue. Their work usually reflects a broadened interest, keener observation of their environment, and greater attention to others in society with a lesser emphasis on "self".—Howard C. Dierlam, Supervisor of Art.

\* \* \*

### Stages of Development in Art Expression

(See illustrations)

1. The experimental stage (3-5 years of age)
2. The stage of symbolism (6-7 years of age)
- 3, 4. The stage of organization of symbols (7-8 years of age)
5. Stage of social awareness (8-9 years of age)
6. The stage of reasoning (10-12 years of age) when his interest in visual realism is shown by over-lapping and attempts at perspective.

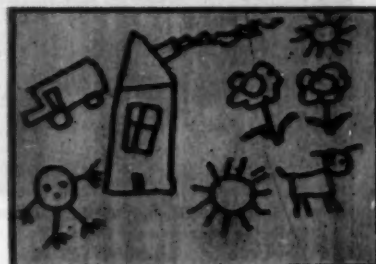
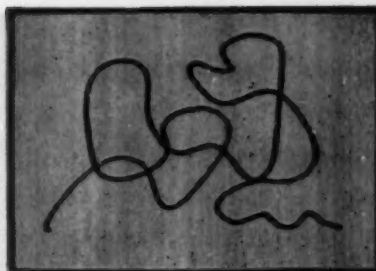
The adolescent stage which follows is marked by self criticism and judgment of a painting for its realistic representation.

the artistic talent of teachers a sketch club exists. Classes in Oil painting are organized annually at the Art centre under the leadership of some professional artist. Outdoor sketching trips are also part of their activities.

An Art Association meets regularly every month for teachers interested in Art Education. Outstanding speakers are obtained who discuss various phases of Art gen-

erally from a cultural point of view, however, occasionally professional artists demonstrate Art and Craft techniques. These have included Manly Macdonald, R.C.A.; Herbert Palmer, R.C.A.; Mr. Carl Schaeffer, A.R.C.A. and others.

Supervisors also use this centre for conferences with individual teachers who wish to discuss problems and seek further assistance in the teaching of Art.





Dr. W. H. Swift, Deputy Minister, Alberta, Chairman, Management Committee.



Mr. F. K. Stewart, Executive Secretary of the Canadian Education Association.



Mr. G. E. Flower, Programme Director, C.E.A.-Kellogg Project in Educational Leadership.

## ***C.E.A.-Kellogg Project in Educational Leadership***

The C.E.A.-Kellogg Project in Educational Leadership has now been officially launched. The first meeting of the Management Committee, the Programme staff and a representative of the Kellogg Foundation took place on September 19th at the Annual Convention of the C.E.A. in Toronto. Membership of the committee is given below.

### **Staff**

Mr. G. E. Flower, Programme Director  
Dr. R. S. McArthur, Assistant Director  
Mr. C. A. Mustard, Assistant Director.

### **Management Committee**

Dr. W. H. Swift, Chairman, Deputy Minister, Department of Education, Alberta.  
Dr. C. C. Goldring, President, CEA, Director of Education, Toronto, Ont.  
Dr. H. P. Moffatt, Deputy Minister, Department of Education, N.S.  
Dr. G. A. Frecker, Deputy Minister, Department of Education, St. John's, Nfld.  
Mr. Allan McCallum, Deputy Minister, Department of Education, Sask.  
Dr. J. G. Althouse, Chief Director, Department of Education, Toronto, Ont.  
Mr. J. L. Pagé, Assistant French Secretary, Department of Education, Quebec.  
Mr. R. H. Chapman, County Superintendent of Schools, Moncton, N.B.  
Dr. W. A. Plenderleith, Inspector of Schools, Department of Education, Victoria, B.C.  
Mr. R. S. Sheppard, Superintendent of Schools, Edmonton, Alta.  
Mr. H. E. Spencer, Secretary-Treasurer, Cdn. School Trustees Assn., B.C.  
Mr. G. G. Croskery, Secretary-Treasurer, Cdn. Teachers' Federation, Ottawa, Ont.

Dr. W. P. Percival, Deputy Minister and Director of Protestant Education, Quebec.

Dr. C. H. Stern, McMaster University, representing the National Council of Canadian Universities.

\* \* \*

Dr. R. Van Duyn, representing the Kellogg Foundation.

Mr. F. K. Stewart, Executive Secretary of the Canadian Education Association.

The Management Committee of the Project in Educational Leadership is fully national in both representation and function. It has been set up as an Advisory Council to the Programme Director and his assistants, and will report to the C.E.A. Directors.

### **Provincial Advisory Committees**

At the September meeting it was decided, as a first step in organization, to propose to the various provinces that a provincial advisory committee also be set up in each province. The purpose of these provincial committees would be:

(1) to give advice to the Management Committee and programme staff with respect to the inter-provincial activities of the project;

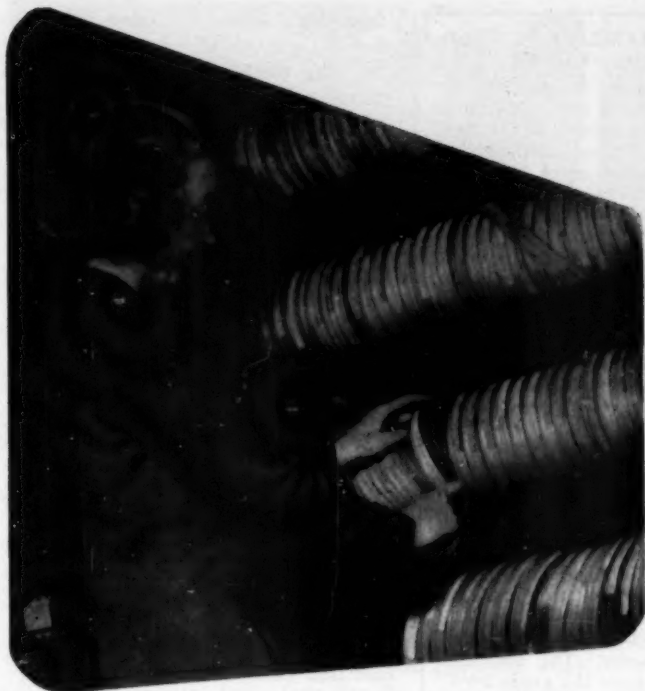
(2) to assume a creative role by advising the committee of changes in educational policy and administration in their respective provinces for study by the national committee and programme staff.

(3) to make use of or try out suggestions arising out of the project, if available, within their respective provinces.

It was suggested that the provincial committees might be appointed from the following educational categories: top Department of Education officials, school inspectors, classroom teachers, school board members, school business administrators and a representative of the universities. The composition of the committee might well vary in the respective provinces.

*(Continued on page 40)*





The School Librarian must certainly know her books and her pupils' interests, but the film librarian needs also to know the value of every motion picture and how it fits into the classroom lesson situation in order to advise the teachers.

## *How to Evaluate* **EDUCATIONAL FILMS FOR CLASSROOM USE**

**T**HE evaluation of educational films is of paramount importance to those responsible for their use in the schools. It is good to review and check the principles used successfully during the past decade. For those who are new in the use of audio-visual materials, this is an opportunity to benefit from the experience of others.

Educational films are evaluated on the following points:-

1. Purpose
2. Subject Matter
3. Treatment
4. Commentary
5. Technical Quality.

These points have been elaborated upon, as follows, to give a more comprehensive outline:-

### **1. Purpose**

(a) The film should have a definite purpose, and should suit a group coming together to study a specific subject, namely:-

1. To introduce a new unit of study.
2. To provide a basis for further study.
3. To add to information gained by previous study.
4. To stimulate interest in subject matter.

The data given here represents the combined opinions of persons active in audio-visual work across Canada and elsewhere, who are experienced in the selection of film material for classroom use—Compiled by F. V. Balmfirth, Consultant for Educational and Religious Films, Benograph Division, Associated Screen News Limited.

5. To clear up difficulties encountered in current unit study.
6. To review a unit of study when completed.
- (b) It should fit into or supplement the course of study as laid down by The Department of Education.
- (c) It should be within the grasp of the age level of the students for which it has been produced in
  1. subject matter
  2. vocabulary.
- (d) It should deal with some phase of a subject for which a moving medium is necessary, i.e.
  1. abstract or
  2. outside the student's experience.
- 2. Subject Matter**
  - (a) Film material should make a manifest contribution to

1. the subject;
2. the textbook under study.

(b) It should build on the foundation knowledge to be expected in students of that age group, so that it proceeds from the known to the unknown.

(c) There should be an introduction which stimulates interest and paves the way for the new lesson to be taught.

(d) Subject matter should be appropriate for the age, intelligence and experience of the students.

(e) There should be

1. a summary of points taught or
2. film material should be explicit so that the student can summarize it after screening.

(f) Illustrations should be drawn from within the experience of the age group indicated.

(g) There should be a teacher's guide available to aid in the effectual use of the film.

### **3. Treatment**

(a) Title should be straightforward, and an indication of the subject matter contained in it. Trick titles distract the student's mind and are misleading.

(b) Film should concentrate on teaching the subject at hand. There should be no extraneous material which pads the film but which detracts from its teaching power.

(c) It should unfold in logical teaching sequence.

(d) It should present a

1. true picture of the ideas which it represents.
2. unbiased picture of the ideas which it presents.

(e) If animated diagrams are used as illustrations, they should fasten attention on the points taught and not attract attention to themselves.

(f) It should stimulate the student so that the way is prepared for further study of the subject.

(g) Unless it is dealing with purely factual material, the film should have value in extending the cultural experience and the all-round development of the student.

#### 4. Commentary

(a) Comments should be within the student's understanding in

1. vocabulary and
2. sentence structure.

Simple, direct sentences, with a minimum of complex sentence structures, so that the commentary clarifies and does not obscure the meaning.

(b) Diction: Commentator's voice should be clear, well-modulated, free from extreme accent, stimulating to listen to, words clearly enunciated.

(c) Semi-entertainment comments distract the student. Commentator should confine his remarks to teaching the subject at hand.

(d) There should be occasional or frequent pauses in the commentary to allow point being taught to sink in.

#### 5. Technical Quality

(a) The photography should be sharp and clearly defined; not grey nor fuzzy.

(b) There should be a balance between close-ups and long shots so

### THE HEARABILITY OF FILM COMMENTARIES

Recent studies by audio-visual administrators in the U.S.A. have been specially concerned with the readability of film commentaries as an important point in evaluating instructional films for classroom use.

Now the question is being asked, "Could readability formulas designed to predict the readability of written material, be used to predict the 'hearability' of spoken or oral material such as film commentaries?"

Three recent studies (1) say definitely yes, and demonstrate the possibility of using readability formulas to measure the difficulty of film commentaries for school grade levels.

What readability formulas can be used with film commentaries?

The readability formulas in current use in America are the Fletch, the Dale-Chall and the Lorge. Of these three the Flesch, the Dale-Chall are the easiest to apply. The simplest way to determine the grade level of film commentaries is to use the film guides usually furnished teachers by the film producers. These guides often contain the entire film commentary, word for word, to which the readability formula may be applied.

The Flesch formula also provides a measurement of the "human interest" of the commentary being analysed. This human interest score ranks the material on a five point scale of interest from dramatic to dull. Thus, the audio-visual administrator evaluating a film can not only determine the degree to which the commentary will be understood by children of a given grade, but also how interesting it will be.

It would appear that readability or "hearability" is a new kind of evaluation technique for films which deserves fuller investigation.

(1) Study by Chall and Dial; Study by Yale University Institute of Human Relations; Study by William Homer Allen, Assistant Professor of Education, San Diego State College, California.

(2) Flesch, Rudolf; *The Art of Readable Writing*, New York City, Harper and Brothers, 1949.

that the observer obtains a comprehensive picture of the background.

(c) The film should not attempt to teach a whole subject, but should keep to one aspect of it, where moving medium is required.

(d) Length of film should be between 10 and 20 minutes, to allow it to fit into the average lesson schedule.

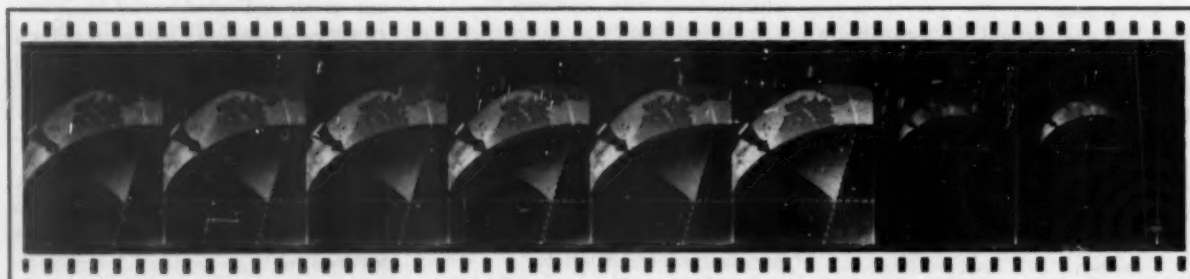
(e) If there is music, it should not be loud enough to interfere with the commentator's remarks.

#### 6. Filmstrips Too

All of the principles mentioned above, with the exception of those rules covering the film commentary, can be applied to the evaluation of silent film strips. The teacher's manuals of Canadian produced film strips enable the teacher to study both the picture and commentary in preparation for presentation to the class.

Great teaching value lies in the fact that black and white film strips can be shown quite clearly in a moderately lighted room. This enables students to make notes, and to carry on discussion with the teacher and other pupils in the room. The pace of presentation of a film strip is entirely within the control of the teacher, and this, in many respects, makes it superior to the motion picture as a direct teaching aid.

Many schools are now developing their own film strip libraries so that teachers may have visual material available when the lesson plan calls for it. To encourage these libraries in Canadian schools certain film producers during the past few years, have been providing free film strips sponsored by Canadian industry. For example, The Canadian Careers series, now comprising some fifteen film strips, is available free to the Vocational Guidance Department of the secondary schools to assist them in courses dealing with Occupations.





## ***The Dr. D. J. Brass Vocational School Extension*** ***Yorkton Collegiate Institute, Yorkton, Saskatchewan***

**H. K. BLACK, ARCHITECT, REGINA, SASKATCHEWAN**

**I**N 1945 there were only three composite high schools teaching a full range of vocational subjects in the province of Saskatchewan. At that time the educational authorities laid plans for the future, and visualized a possible sixty-two new educational projects. On September 28, 1951, the town of Yorkton officially opened the Dr. D. J. Brass Vocational School extension to Yorkton Collegiate Institute, bringing that school up to full status as a composite high school, and completing the thirty-fifth step towards attaining the Department of Education's original objective.

The vocational or technical addition to the Yorkton Collegiate Institute is a thoroughly modern building both in architectural design and construction, and includes full facilities for teaching industrial, homemaking and commercial courses of the composite high school curriculum. In addition it contains an auditorium-gymnasium with all the necessary auxiliary rooms for the modern course in physical education, locker rooms, shower rooms, dressing rooms, etc. as well as providing an auditorium for school assemblies and modern stage for dramatic presentations.

From the double illustration at the head of this article it will be seen that the new "technical extension" is an addition to the original collegiate institute building, being joined to the old structure through the main corridor of the new building. However, it will also be noticed that each building, both new and old, has its own main entrance.

The main entrance of the vocational building is at the corner of Darlington Street and First Avenue. It leads into a modern lobby of generous size with terrazzo floor. At one side are large bright windows, and on the opposite wall have been built show-cases to display sports trophies, school work, etc. Immediately off the lobby is the new auditorium with a seating capacity of 1,000 including a balcony along the right hand side. There is a large fully equipped stage capable of serving for any form of entertainment, and behind the stage are dressing and production rooms, all completely sound-proof, for the production of school plays, operettas and concerts. It is undoubtedly the finest auditorium in Yorkton.

### **The Programme and Studies at Yorkton Collegiate Institute**

Present enrolment at Yorkton Collegiate Institute is 565, made up of four grade nine rooms, four ten, four eleven, two twelve and one straight commercial.

**Grade Nine**—All Rooms: Literature; Composition; Social Studies; Science; Mathematics; Health; P.T.

In addition: 1A—Latin; French; Home Economics; Woodworking.

1B—Woodworking; Accounting; Special P.T.

1C—Home Economics; Typewriting.

1D—Latin; French; Home Economics; Woodworking.

**Grade Ten**—All Rooms: Literature; Composition; Social studies; Mathematics; Science; Health; P.T.

In addition: 2A—Latin; French; Home Economics; Metal Work.

2B—Woodworking; Metal Work; Drafting.

2C—Home Economics; Typewriting.

2D—Home Economics; Typewriting; French.

**Grade Eleven**—All Rooms: Literature; Composition; Social Studies; Algebra; Geometry; Chemistry.

In addition: 3A—Latin; French; Drafting; Physics; Home Economics.

3B—Agriculture; Physics; Shop (Metal Work & Motor Mechanics; Woodworking).

3C—Agriculture; Home Economics (2 Credits); Typewriting.

3D—Home Economics; Agriculture; Typewriting; Shorthand.

**Grade Twelve**—All Rooms: Literature; Composition; Social Studies; Geometry-Trigonometry; Algebra; Physics; Chemistry; Biology; Agricultural Economics; Home Economics; Drafting; Metal (Welding); Drafting.



### The Home Economics Department

On the other side of the main corridor of the new building which connects it with the old collegiate is the home economics laboratory. It is scientifically designed and provides facilities for about two hundred and seventy girls. In it the girls learn the arts of housekeeping in a pleasant environment and in the proper scientific manner. The laboratory is divided into two main sections, one for homemaking, one for sewing. The sunny sewing room, accommodating twenty-four pupils at one time, contains twelve sewing machines with individual drawers for each student, built-in ironing boards and a fitting room. Six work tables and plenty of cupboards are provided.

The other end of the home economics room is divided into living room, dining room and a large six unit kitchen. Each kitchen unit is complete with its own electric stove, sink, cupboards and drawers. It boasts a deep freeze for meat storage, and cupboards are provided for regular stocks of baking powder, flour, spices and every other cooking essential. In between the kitchen and the sewing room is a laundry. Two tubs and an electric washing machine are provided, and there are cupboards in which to dry clothes.

At the far end of the corridor there is a fine bright room which has been furnished as the headquarters for the school nurse on her regular visits to the school.

### The Industrial Arts Department

The boys' or industrial section of the technical extension is located along the rectangle at the back of the building. There is a drafting room, woodworking shop, welding and blacksmith shop and mechanical trades shop. All are outfitted with work benches,

lockers, supply cupboards, electrical and mechanical equipment. The welding room is equipped with masks, goggles, acetylene torch, gloves, clamps, etc.

A good basic training in woodworking, cabinet making, machinery, metal work, motor mechanics and other metal work are available for boys who are interested in a practical course. They are familiarized with many different machines, and receive a broad understanding of several types of trades so that they may be in a position to choose a special course in the senior year. The vocational course cuts down the period of apprenticeship which they must undergo before they receive regular papers for qualification in industrial work.

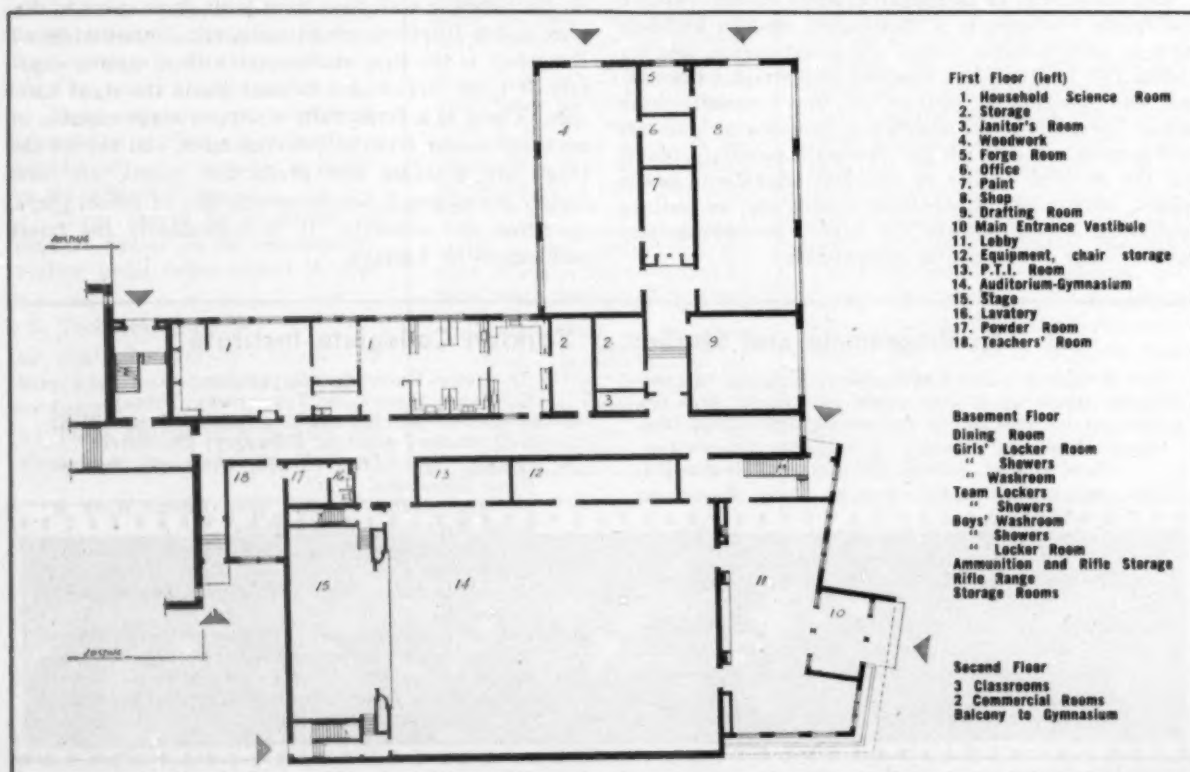
### The Commercial Department

The second floor of the new extension houses five classrooms, two of which are especially designed for commercial work. One contains thirty-six typewriters and the other is furnished with all types of business machines including comptometers, adding machines and one duplicating machine. Plans for setting up accounting, selling and purchasing departments like a real business office are under way so that the most practical business course possible may be offered. There are also three standard classrooms on this floor, and the balcony of the auditorium is also entered from this floor.

Located in the basement of the new building are locker rooms, shower rooms and store rooms for physical education and sports apparatus, and there is also a shooting gallery for the air cadets of the school.

Yorkton Composite High School with its additional accommodation is now capable of serving six hundred

(Continued on page 35)



## VOCATIONAL EXTENSION

Yorkton Collegiate Institute

An interesting corner of the fully equipped modern home economics department.

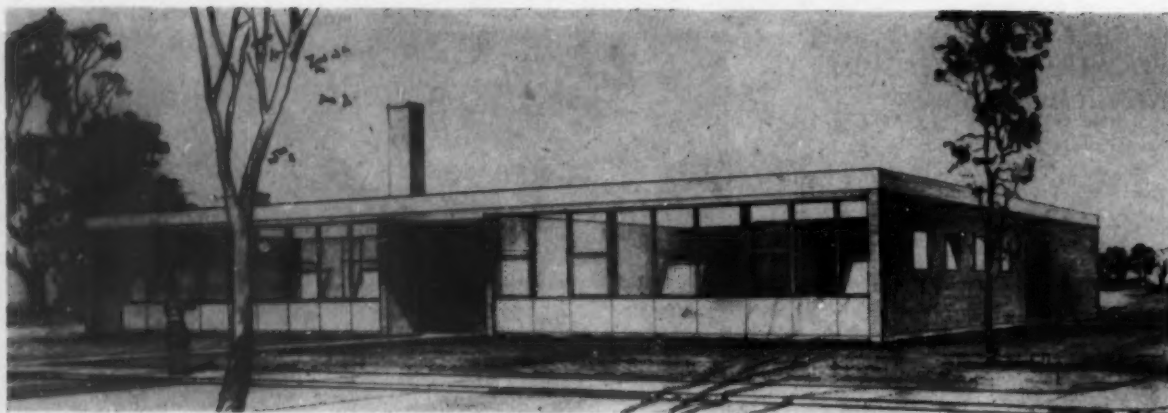


A view of the woodworking shop of the industrial division.



The industrial arts department of the new vocational extension contains a drafting room, woodworking shop, welding and blacksmith shop and a mechanical trades shop.

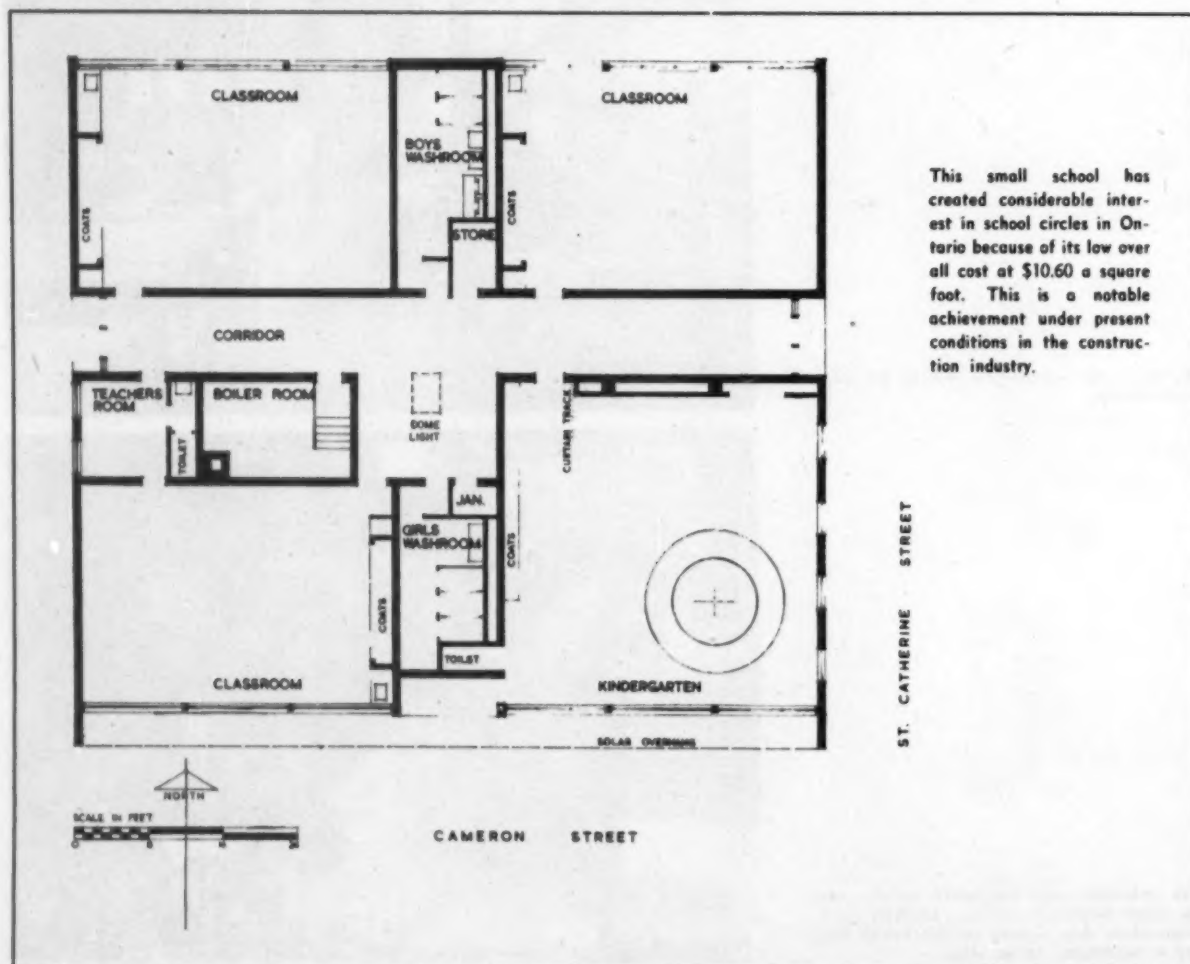




## ***CAMERON STREET PUBLIC SCHOOL***

***Peterborough, Ontario***

**JOHN B. PARKIN ASSOCIATES, TORONTO, ONTARIO**



This small school has created considerable interest in school circles in Ontario because of its low over all cost at \$10.60 a square foot. This is a notable achievement under present conditions in the construction industry.



## ***Cameron Street Public School, Peterborough, Ontario***

ONE of the most interesting small schools designed in Ontario in recent years is the school for the Peterborough Board of Education now under construction on Cameron Street, Peterborough.

Designed for a site 180 ft. square and for a location not requiring expansion, the school programme required three teaching classrooms plus one kindergarten. In addition to these are the usual washroom facilities, while wardrobes and project counters and sinks are provided at the back of each classroom.

The fourth classroom provided is a large kindergarten which is situated in the south-east corner of the school to enjoy the most favourable orientation. This kindergarten is provided with its own sheltered entrance, its own play area to the south of the school and away from the play area used by the larger children. Equipped with its own toilet facilities, ample cupboard space and project facilities, this room is flooded by sunlight from two sides and is the feature of the entire school. A curtain track is installed flush to the ceiling which, when drawn provides a stage for the kindergarten on occasion. A play circle set in the asphalt tile floor is a colourful yet useful addition.

A teacher's room is provided with access to both the corridor and the senior classrooms.

An interesting feature is the entrance to the washrooms planned to be so screened that doors are unnecessary, a great convenience to the very small children who attend the school.

The school itself is attended by only the junior grades and everything in its design reflects the child-like scale desirable for a building of this nature. The specification of the wardrobe doors is a point of interest in the provision of a fitted counter-balanced unit which slides up into the furred and cupboard space above, getting the entire door out of the way and providing ready access to the whole wardrobe.

Another interesting feature is the use of plastic dome sky-lights over both the washrooms and the main corridor to provide the same degree of daylight in the interior of the building as in the classrooms. The interiors are painted in bright colours with each classroom keyed about a separate colour for identification. All interior finishes are of a high order notwithstanding the fact

that plaster was eliminated for both economy and speed of construction. The resulting exposed haydite block when painted illustrates that this material, like most others, possesses a certain inherent beauty when properly used. Its porous texture provides an excellent acoustic surface as well. For added sound proofing the ceilings are acoustically treated. The floors throughout are asphalt tile. The chalkboards are Sterling Litesite in an attractive green shade. The lighting is incandescent with supplementary chalkboard lighting. The heating system is forced hot water.

The exterior is completely modern in design and proves that even the smallest buildings can be attractive architecturally. The walls are a combination of buff brick with accent panels of purple-black brick for interest. The spaces between the sills of the classroom windows and the grade are filled with precast concrete slabs, again to provide textural relief. The extensive window areas are protected on the south side by solar overhangs of a depth calculated to protect the classrooms from the sun during the hot spring and autumn months but to allow the sun to penetrate the farthest corner of the classrooms during the winter months. No solar protection, of course, is needed on the north side of the school. Virtually no windows are on the west side, generally conceded to be the most objectionable orientation for habitable rooms. The windows themselves are of plate glass set in wood sash, while the opening units are steel sash painted in the primary colours.

The school contract was let recently to Walter H. Mortlock, General Contractors of Peterborough, at \$10.60 a square foot. This figure has evoked so much interest from the various bodies concerned that a favourable following will persist throughout the whole construction. The previously mentioned design economies coupled with an all wood structural frame have created a building which is extremely economical despite its small size. Were the school somewhat larger by way of number of classrooms there is good reason to believe that the unit price would be forced even lower.

The school is the eighth built by John B. Parkin Associates, Architects and Engineers of Toronto for the Peterborough Board of Education since the close of World War 2.

## ***Yorkton Collegiate Institute***

*(Continued from page 32)*

students. It provides the principal, Mr. R. M. Baldwin, and his staff of eighteen teachers with the most up-to-date facilities for teaching the full composite high school course.

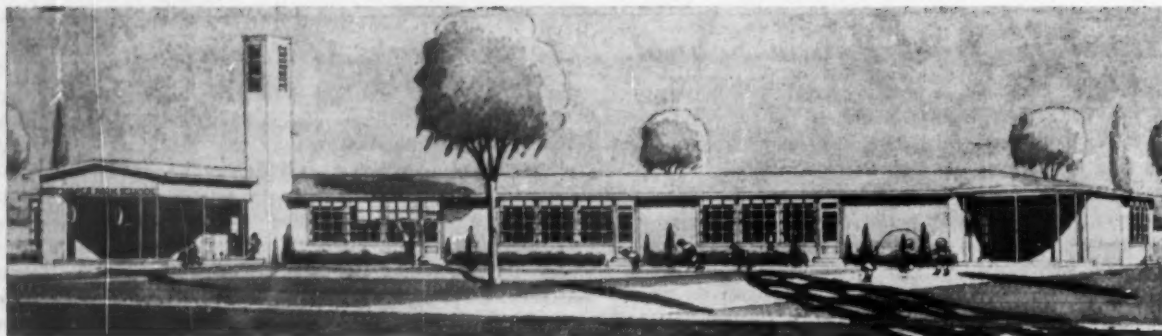
It should be mentioned at this point that altogether the Yorkton Collegiate Institute now has sixteen classrooms. The rooms in the old building have been completely redecorated, and are cheerful and up-to-date in every way. One room in the old building is now completely devoted to service as a library, and a biology laboratory has been added to the school facilities.

The town of Yorkton, Saskatchewan, may well feel very proud of its centre of secondary education. The

Brass Technical School, together with the other two buildings that comprise the Yorkton Collegiate Institute are felt to be second to none in the province and are a tribute to this community's investment in youth and education.

Credit for work well done should be given to Mr. H. K. Black of Regina, Architect, and to the local contractor Mr. Donald P. Logan of the firm of Logan and Black, who is himself a graduate of Yorkton Collegiate Institute.

The present enrolment is 565 pupils, made up of four grade 9 rooms, four grade 10 rooms, four grade 11 rooms, two grade 12 rooms, and one straight commercial class.



## SOME PRACTICAL NOTES ON CAPITAL COSTS

At the Annual Convention of the Canadian Education Association held in Toronto in September, Mr. J. A. G. Easton, technical advisor to the Ontario Department of Education, led a panel discussion on the very important subject of "Economy in School Construction". The meeting was particularly well attended by representative educational executives from all parts of Canada, and participation was general and spirited. After the meeting a summary was

issued in the form of notes covering some of the broad situations governing the cost of school plants.

We feel that school executives in every part of the Dominion should have an opportunity to study these notes and, therefore, publish them herewith so that as many as possible may benefit by their very practical findings and suggestions. Geographic situations, economic circumstances and other factors will, of course, influence their interpretation.

### 1. Elementary Schools

- (a) Elementary schools require a gross area of 43 sq. ft. per pupil for classrooms and normal administrative areas.
- (b) In schools with 4 or more classrooms, general purpose rooms may be added. Such rooms are used for many purposes viz.—assembly, physical education, lunch, dramatics, supervised play and other organized instruction. If general purpose rooms are added then the gross area per pupil increases to 57 sq. ft.
- (c) Fifty per cent of the areas in (a) and (b) is used for instructional purposes. The remaining 50 per cent is required for offices, washrooms, corridors, teachers' rooms, boiler rooms, wall thicknesses, etc.
- (d) Classrooms are designed to carry a normal load of 35 pupils. General purpose rooms are regarded as instructional areas, but they do not increase the normal accommodation of a school.
- (e) Schools of fire-resistive construction without general purpose rooms can be expected to cost \$650.00 per pupil. Schools of fire-resistive construction with general purpose rooms can be expected to cost \$850.00 per pupil. Costs mentioned include site, building contract, architect's fees, furniture and equipment.

### 2. Secondary Schools

- (a) Secondary schools require a gross area of 95 sq. ft. per pupil.
- (b) Forty per cent of the area mentioned in (a) is used for instructional purposes such as classrooms, laboratories, general shops, home economics rooms, library classrooms, art rooms, commercial rooms, gymnasium-assemblies, etc. The remaining 60 per cent is required for offices, washrooms, teachers' rooms, dressing-rooms, showers, spectator galleries, corridors, cafeteria, kitchen, guid-

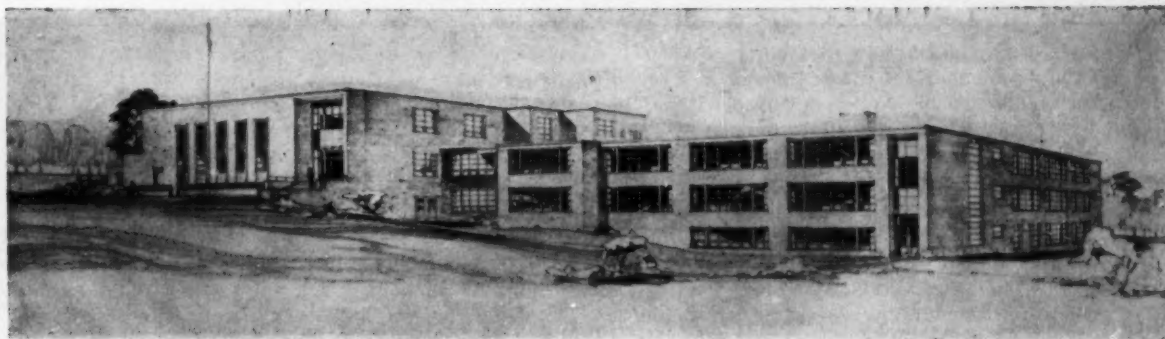
ance, nurse, boiler room, wall thicknesses, etc.

- (c) If auditoriums with fixed seats, swimming pools, rifle ranges, cadet rooms and Board rooms are added, the gross area required becomes anywhere from 115 to 150 sq. ft. per pupil.
- (d) Classrooms, laboratories, music rooms, art rooms, commercial rooms are designed to carry normal class loads of 30. Shop and home economics rooms carry 20. The gymnasium-assembly is regarded as an instructional area but it is not charged with a pupil load.
- (e) Schools of fire-resistive construction can be expected to cost \$1,500.00 per pupil of accommodation if they are restricted to the facilities as outlined in (b).

### 3. Utilization

- (a) In Elementary schools, classrooms usually carry a full class load at all times. The general purpose room is used for many purposes, both in and out of school hours. If it is used in school hours, some classrooms are likely to be vacant.
- (b) In Secondary schools it is impossible to obtain 100 per cent utilization in specialized instructional areas such as shop, home economics room and gymnasium in schools with an enrolment of less than 400 pupils.

In a Secondary school with an enrolment of 200 pupils with a shop, home economics room and gymnasium, it is likely that these facilities will only be used 50 per cent of school time. Areas for these facilities are approximately twice as big as classrooms but carry one-half class loads, and, it therefore follows that if such areas are used 50 per cent of the time, then the cost per pupil station is eight times as much as a pupil station in a classroom. In addition, the small school is



## IN THE CONSTRUCTION OF MODERN SCHOOLS

likely to find that classrooms become idle in order to feed specialized areas.

- (c) Cost per pupil mentioned refers to the cost if the accommodation provided is fully utilized. The ideal situation would require that every room in the school carry a full class load at all times. Choice of options and drop-outs in senior grades are obstacles which are met in some measure by oversize classes in the junior grades. Internal adjustments may be made but the total enrolment should be such that the total pupil accommodation provided should be matched by total enrolment. An examination of the pupil-teacher ratio is one method of ascertaining percentage utilization. If utilization falls 33% below accommodation, then unit capital cost should be increased by 50% which would make capital cost per pupil in High Schools \$2,250.00.

### 4. Finance

School finance for capital account varies according to economic circumstances. There are a few fortunate places where the full cost is paid when the school is completed. Some finance on 60-year debentures.

The general practice in Ontario is to finance on 20-year debentures. At current rates it requires \$80.00 per annum to retire the debt on \$1,000.00 over 20 years, or, in other words, \$1,000.00 worth of school plant costs \$1,600.00 by the time the debt is discharged.

### 5. Square Foot Cost

Fire-resistive schools in Ontario currently cost \$12.00 to \$15.00 a sq. ft. This applies to every floor including basement and wall thickness. It does not include school site, architect's fees, furniture or equipment. The sq. ft. cost applies to both Elementary and Secondary schools.

### 6. Building Contract

The building contract normally includes improvement to site, connection of public utilities, general contract, plumbing, heating, ventilation, lockers, lighting fixtures, built-in cupboards and cabinets, clocks bells and inter-communication systems, etc.

### 7. Space And Appointment

Space and degree of finish contribute to the cost of schools. Major economies can be made if educators

modify demands for these items. Areas demanded should be stipulated for normal class loads, and such areas should not be built unless reasonable utilization is assured. While dual-purpose areas may not be desirable, they are now in common use. This use is likely to be continued and must be considered. Such items as gymnasium-assemblies, library-classrooms, agricultural-science rooms are examples. The size of the cafeteria can be restricted by relay sittings. Areas for extra-curricular and community use can become a heavy capital burden.

Mechanical devices, controls, ventilation systems, acoustic treatment, high light intensities, communicating systems, etc., have been introduced into schools in recent years. The usefulness of these and similar items under operating conditions may be questioned.

Considerable economy is possible with respect to the finish of a school building. Some items such as stone trim, parapet walls and plaster can be eliminated. Domestic materials can be used in preference to imported materials. Tile dadoes may be substituted by cement enamel. Mastic tile can be used for floors or even hardened concrete may be used.

### 8. Furniture And Equipment

School furniture and equipment is usually purchased apart from the building contract. In Elementary schools this amounts to about 5 per cent of the building contract and about 10 per cent in Secondary schools. Economies can be made if standard school furniture of simple design, made with domestic materials is used. For example, science desks are often made with oak which is imported, capped with 1 3/4" laminated tops with a battery of locked doors or drawers. Quite satisfactory, are desks made of birch, capped with a 3/8" plywood top with locks eliminated.

### 9. Site

School sites should be obtained well in advance of requirements. This may be done via town Planning Boards. The site should be of adequate size;—water, sewage disposal and power should be readily available. The cost of the site should be appraised including improvements and development, in order to ascertain its real cost.



### 10. Expansion And Flexibility

One of the most important considerations in a school building is that it can be readily extended without involving demolition or blanketing light in existing classrooms. School buildings should also be as flexible as possible to meet changing requirements in the curriculum. As far as possible, services in the way of ducts, pipes and power distribution should be kept out of walls between rooms.

### 11. Standardization

The design of the building should be as simple as possible. This simplifies layouts and steel fabrication, and permits repetition of construction units, all of which contribute to lower cost.

### 12. Prefabrication

Prefabrication can effect savings on such items as precast units, windows;—glazed, weatherstripped, complete with hardware, delivered to the job; doors;—hung on split frames and hardware set at the mill; cabinets and built-in units built in sections and planted in the school room.

### 13. Speed Of Erection

The speed with which a school building can be completed is an important cost factor. This is expedited by the selection of a type of construction suited to the locality in which the school is built, by the extent to which simplified layouts, standardization and prefab-

rication are employed, by arranging that each trade shall be able to complete its work without interruption by other trades and by the opportunity which the contractor is given by the architect to employ alternate methods of construction, etc.

### 14. Materials

A careful choice of the materials and equipment which enter into a school building can effect the cost quite substantially. The following are a few items selected at random which show the price range and the quantities required in a Secondary school which would house approximately 400 pupils.

Item	Quantity	Price Range
Floors	38,000 sq. ft.	.40 to \$ 1.50 per sq. ft. in place
Ceilings	38,000 sq. ft.	.21 to .90 per sq. ft. in place
Dadoes	3,500 sq. ft.	.50 to 2.00 per sq. ft. in place
Chalkboard	2,000 sq. ft.	.55 to 2.15 per sq. ft. in place
Tackboard	2,000 sq. ft.	.08 to .34 per sq. ft. in place
Brick (face)	150,000 bricks	32.00 to 93.00 per M. Bricks only
Lockers	400	18.00 to 27.00 per locker in place
Lock Sets	75	5.00 to 24.00 per lock
Basket Ball		
Backstops (fixed)	1 pair	200.00 to 700.00 per pair in place

The price range is wide. The saving in any one item may not be great but if every item involved in the construction of a school is judiciously selected, the cumulative saving becomes substantial.

It should be remembered that the cheapest material is not always the most economical. Many factors require consideration such as maintenance and the anticipated life of the building.

## A Multi Purpose Classroom Designed By An Australian Schoolmaster

**A**N Australian schoolmaster has designed a multi-purpose classroom which has been patented in Australia and the United States. His design will be incorporated in a 26-classroom school building to be erected soon in Columbia.

Mr. Denis O'Brien calls his design the Colner classroom, a contraction of the name of the New South Wales Department of Education's Collaroy-Narrabeen school, where he is headmaster.

During his 31 years of teaching Mr. O'Brien has always been impressed with the need for a different type of classroom where "personalized" teaching and pupils' individual initiative can be encouraged. He has incorporated these ideas in his Colner model sectional classroom. Instead of one large room where 40 or more children sit at desks, he believes that the area should be broken up into sections, separated by polarized glass. These sections should comprise a main classroom for general assembly and instruction, flanked on either side with library study rooms. There should also be a nature study room where pupils can experiment, read, collect, and exhibit all types of materials such as species of rock, shells, plants and insects. Another room should be fitted as an arts and crafts room so that the children have the benefit of creative self-expression and self-teaching as an important adjunct to their studies. All the rooms are separated by polarized glass which allows the teacher to watch the pupils' activities but prevents noise from one room penetrating to another. Mr. O'Brien believes that 24 pupils to a class is the ideal number one teacher can handle successfully, although classes at his Collaroy-Narrabeen school range from 44 to 50.

The measurements of his model classroom are 40 ft. by 30 ft. This allows 10 square feet of space and 13 cubic feet of air for each pupil in the main classroom, which is 20 ft. square. This main room has three sides of polarized glass folding partitions separating it from the library study rooms and the other crafts and nature rooms. These glass partitions, which also form the interior walls of the other rooms, can be folded back to transform the space into a theatre or discussion room for larger numbers. The desks in the main room are light and movable. The building has a sloping roof with a polarized glass section between the ceiling and roof which can be opened during the hot summer months.

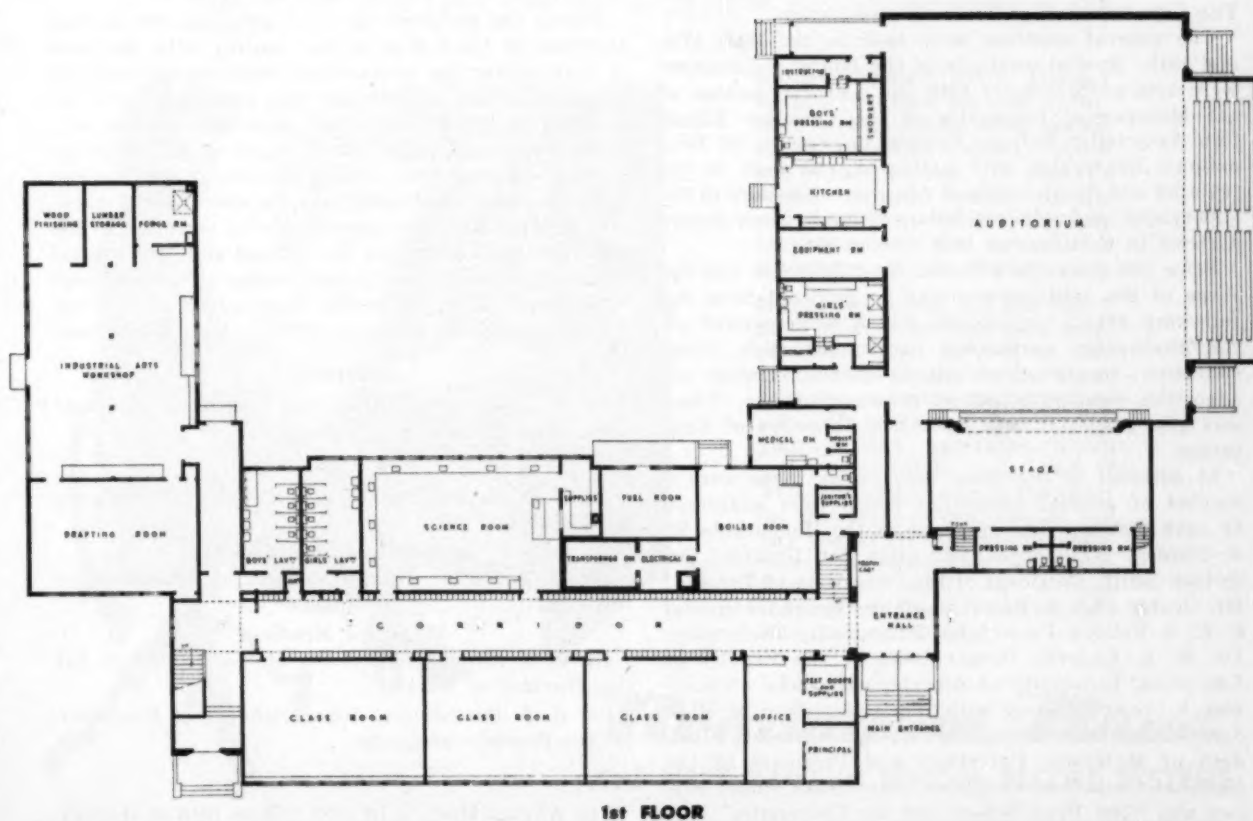
"Children should be free to talk during school lessons," says Mr. O'Brien. "It is only by asking questions that they gain knowledge. For this reason I use polarized glass. I also believe that an arts and crafts room where children can do things on their own initiative should be an integral part of every school. Not all children can learn by visual or oral methods. A great many that are regarded as being "dull" under to-day's general teaching methods would probably be "bright" pupils if they were able to work out manually the problems that baffle them now. The idea of the library research rooms which flank the main room is for the quick-learning scholars, who need not be handicapped by those who are slower to learn. The idea is based on the university seminar method. The master will set the children certain problems or give them the outline of a curriculum subject."—The Educational Supplement, Times, London.



## *The New Gibson High School*

*Gibson, British Columbia*

HAROLD CULLERNE, ARCHITECT, VANCOUVER, BRITISH COLUMBIA



## The C.E.A.-Kellogg Project

### Regional Resource Workshops

It was further decided to conduct Regional Resource Workshops in the coming year to discuss the work and problems of the project as follows:

- (1) Western provinces to convene for two weeks in February in Saskatoon;
- (2) Central provinces to convene for two weeks around Easter, the time and place to be set;
- (3) Eastern provinces to convene for two weeks in January, probably in Halifax.

Each workshop would consist of ten superintendents of schools or school inspectors, as the case may be, divided among the provinces of the region according to superintendent or inspector populations. They would work on problems of their own choice reporting their findings

(Continued from page 28)

fully to the Programme Director and the Management Committee. Discussion might include such subjects as:

- (1) the relationship of the school inspector or superintendent to local school boards;
- (2) the role of the superintendent or inspector in the development of public interest in and support of the schools of a school district or municipality.

Thus, the machinery of the project in educational leadership has been set in motion. Educationists of all categories across Canada will watch with the keenest interest for reports of discussions and experiments to appear in the educational press and will look forward to the first interim report on the project which will be given, it is expected, at the 1953 Annual Convention of the Canadian Education Association next September.

## The 1952 Convention of The Canadian Education Association

The Canadian Education Association which is undoubtedly the most influential educational body in Canada—its membership is made up of high-ranking officials from all over the Dominion who are engaged in all phases of education on the elementary and secondary level—held its annual meeting at Toronto, Ontario, on September 15th to 19th, inclusive. Included in its membership are also representatives of such organizations as the Canadian Association for Adult Education, the Canadian Teachers' Federation, the Federation of Home and School Associations and The Canadian School Trustees Association.

The general meetings were held on the 16th, 17th and 18th. Special meetings of the Board of Directors were held on September 15th and a special session of the Management Committee of the Canadian Education Association-Kellogg Foundation Project in Educational Leadership with particular reference to the training and development of educational leaders in the supervision and administration of larger area school systems in Canada was held on the 19th.

Some 500 delegates attended the conference and the scope of the deliberations may be gathered from the following group conferences which were carried on simultaneously: curriculum; urban education; rural education; vocational education; teacher training; art education, economy in school construction, etc. There was also a special meeting of the Ministers of Education.

In addition to the panel discussions there were a number of general assemblies which were addressed by such distinguished speakers as the Honourable W. J. Dunlop, Minister of Education for Ontario; Dr. Sydney Smith, President of the University of Toronto; Mr. George Flower, Programme Director of the special C. E. A.-Kellogg Project for Educational Leadership; Dr. M. E. LaZerte, former Dean of the Faculty of Education, University of Alberta, who spoke on a research project dealing with the Articulation of High Schools and Universities and Dr. G. P. Gilmour, President of McMaster University and President of the National Council of Canadian Universities whose subject was "The High School and the University."

The province of Ontario was most generous in the hospitality extended to the delegates and very successful and much enjoyed social functions were organized both on an official and on an unofficial level. These included a special dinner for the Directors tendered by the Public and Separate School Boards of Toronto. A banquet was tendered by the Government of Ontario to the members of the Association and their wives. The Attorney General of the Province, the Honourable Dana Porter, was chairman at the function and the Honourable W. J. Dunlop was guest speaker.

Among the problems currently receiving the serious attention of the C.E.A. is that dealing with the need of harmonizing the universities' requirements and the obligation which rests on the high schools to serve the needs of an evergrowing high school population, only a relatively small proportion of which plans university studies. Another very serious problem is that dealing with the general and professional preparation of teachers. A resolution was passed drawing attention to the urgent need of extending the general and professional education of elementary school teachers from one year to at least two years beyond high school graduation.

The Association executive officers for 1952-53 are:

### President

Dr. C. C. Goldring, Director of Education, Board of Education, Toronto.

### Vice-President

Dr. R. O. MacFarlane, Deputy Minister of Education for Manitoba.

### Immediate Past-President

Dr. H. P. Moffat, Deputy Minister of Education for Nova Scotia.

### Executive Members

Dr. J. G. Althouse, Chief Director of Education for the Province of Ontario.

Dr. O. J. Désautels, Superintendent of Education for the Province of Quebec.

\* \* \* \*

The Annual Meeting in 1953 will be held at Halifax.



# Can your pupil history records pass this test?

- ( ) Can you find any desired record in 5 seconds or less... and make entries without removing it from the file?
- ( ) Does your history record form permit entry of ALL data you need... does it help rather than hinder you in assembling statistics and reports... and is it designed to "follow" the pupil through all grades without having to be recopied?
- ( ) Does your filing equipment protect your records from (1) destruction in case of fire; (2) excessive wear and soiling; (3) upset or accidental removal?
- ( ) Does your system give you rock bottom cost per year, all factors considered—equipment, supplies and clerical work required? And is it sufficiently flexible to permit future changes without waste?
- ( ) Is the supplier of your system substantial and reputable—likely to be in business 10, 20 or 30 years from now to give you good service whenever you need it?



Kardex Visible Pupil History Record Systems provide a durable, acetate-tipped filing pocket for each student's history record and related papers. The pocket's visible margin speeds finding and signals—visibly—any key facts you need for preparation of summaries and reports.

It may seem odd, but the BEST pupil history records—the most complete, most helpful to students and faculty—are those that are easiest to maintain and actually cost the least. Ask yourself the questions which we've set forth here, and if YOUR history records fall short on any point—even one—it will pay you to get our recommendations. No obligation, of course. Phone us locally or write—Remington Rand Limited, 984 Bay Street, Toronto.

## ***Remington Rand***

THE FIRST NAME IN SCHOOL RECORD SYSTEMS

"Now I'm quite sure that any one of these causes of truancy might be dealt with by the big stick method," observes Dr. Jones. "But I wonder if anyone really feels it's sensible to use stern discipline and fear to make a child with any of these problems stay in something he can't possibly profit from. Obviously, you are only storing up trouble for the future."

"Such a child is going to learn very little except what people with big sticks are like, and he's only going to be a nuisance to the rest of the class unless his problem is solved."

"He's going to learn what people with authority are like, and that he either has to knuckle down quickly or bide his time until he gets the big stick in his own hand and starts fighting back as vigorously as he can," sums up Dr. Jones. "In either case, we've done something which makes for social trouble in the future."

## What Does The C.A.A.E. Do?

The Canadian Association for Adult Education is one of the most active educational organizations in Canada. As an example of its wide interest we list below a few of the activities engaged in during the past six months:

**Compiled information about the teaching of adult illiterates**—This information will be used to improve practice in Canada and has been requested by several countries which have a high rate of illiteracy.

**Published a report about education work in DVA hospitals, sanatoria and reformatories**—Copies of this are now available.

**Sent a specialist to Jamaica to assist in development of adult program in the British Islands**—Charles Topshie of Nova Scotia represented the Association on this mission. The C.A.A.E. has also been recruiting specialists for technical assistance programs in backward countries.

**Completed a study of the distribution of pamphlets**—Report soon to be available.

**Assisted in organizing two new community schools for adults.**

**Answered nearly a hundred requests for information on citizenship, how to lead a discussion, where to get reliable information about alcoholism, etc.**

**Distributed many hundred study bulletins.**

## The Beauties of Learning

Continuing education is one of the most important needs of our day, with the most far reaching consequences.

... The significance of continuing education is that it rescues men and women from slave-like insignificance, from the sense of being powerless and alone.

Too many, alas! rely wholly upon science, the marvel of this age. Science can not, by itself, solve our major human problems. It can not impose upon people the co-operative, give-and-take relations we should like to see between individuals and between nations. What

we need, in continuing education, is ennoblement of individuals through philosophy, the arts, religion—what we refer to usually as the "humanities".

... It is not enough to have learned to read, write and figure. Canada has so few illiterates that they are not worth counting at census-time. Skills do not give wisdom, though they and science, technology and business management do prepare the way toward wisdom.

There is no easy formula by which we can suddenly grow mature in matters of the intellect and the spirit. Every year that is given to the effort after graduation is well worth while in the return it gives us in happiness, satisfaction and achievement.

... The person who quits learning upon leaving university or school is giving in to an idea of limited usefulness, limited satisfaction and limited happiness. He is contributing to his own bewilderment and feeling of insecurity in a fast-moving world.

... Continuing education qualifies us to bring relevant background to bear upon a current problem, to gather information that will be pertinent to the question in hand, to grasp relationships between this state of affairs and another, between this person's action and his social environment; and—this is the aim and object of it all—to make a judgment in the light of our clearly defined values and the information we have.

... To go on learning past the schoolday period is to continue developing taste and enjoyment. We train our eyes and our ears and our judgment, so that we awaken the spirit of fine perception of beauty, of generous admiration for what is noble and true.

There are many definitions of culture, but the sort of culture we have in mind includes three attributes.

It trains workers to have better understanding of the ins-and-outs of their jobs, so that they know how they fit in with the laws of production and consumption. It helps workers to develop their true selves through intellectual or manual activity.

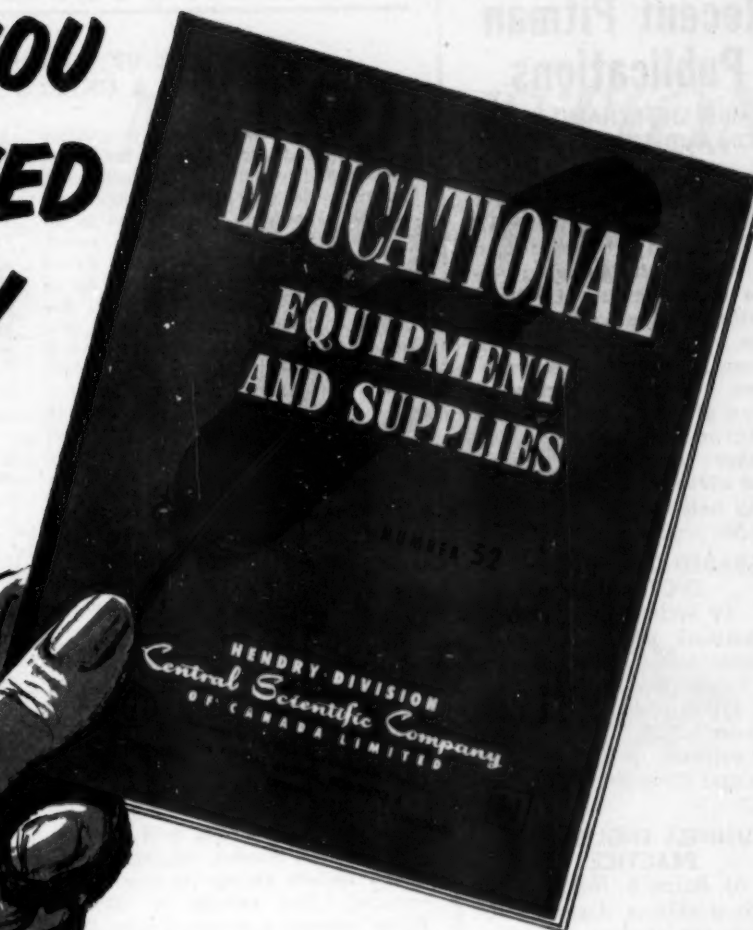
Culture qualifies everyone to assume his responsibilities as a person and as a citizen, not only in his workshop, his trade union and his family, but also in his community and in the world community. It makes freedom more real by increasing its scope.

Culture enables a man to develop, to the utmost of his desire and ability, fullness of living physically, morally, intellectually and artistically. It helps him to weed out the non-essentials, to cleave to the significant in knowledge, and to think clearly. It enables him to become all that he is created capable of being.

... To continue learning is important enough to demand top place when we are planning how we shall use our time. We are in danger of putting off until some tomorrow the very thing that will make tomorrow worth living.

(From The Royal Bank of Canada Monthly Letter of May 1952. Copies of this inspiring essay may be obtained from the Head Office of the Bank, Montreal, Quebec.)

**HAVE YOU  
RECEIVED  
A COPY  
?**



Although this new catalogue has been widely distributed our mailing lists may not include many school officials, principals and teachers responsible for the selection and purchase of classroom requirements.

If you have not received a copy be sure to write us before placing orders. We are confident that you will find our catalogue most helpful and advantageous.

*Hendry Division*



**CENTRAL SCIENTIFIC COMPANY  
OF CANADA LIMITED**

*Successor to The Geo. M. Hendry Co. Limited*

146 KENDAL AVENUE, TORONTO 4,

MONTREAL

OTTAWA

VANCOUVER





## Recent Pitman Publications

### PITMAN SHORTHAND DICTATION AND TRANSCRIPTION

A shorthand dictation textbook prepared specifically to follow **BASIC COURSE IN PITMAN SHORTHAND**. Provides a well-organized incidental review of the theory of Pitman shorthand, especially as it applies to the development of fluency in writing. Also introduces a thorough incidental review of the common rules of punctuation, capitalization, number representation, and word division, as well as offering helpful hints on stenographic procedure.

### GRADED OFFICE-STYLE DICTATION

by Jack Grossman

A textbook prepared to familiarize students with dictation habits of various personality types encountered in a business office. Bridges the gap existing between classroom and office dictation practices.

### BUSINESS ENGLISH IN PRACTICE

by Ralph S. Handy

A text-workbook designed to provide the student with the practical background of English that is necessary for effective work in business-correspondence and secretarial classes. Based on the practical learn-by-doing principle. The illustrative letters, with few exceptions, are from the files of progressive business offices, and the problems are founded on actual business situations.

### BUSINESS CORRESPONDENCE IN PRACTICE

by Ralph S. Handy

A text-workbook presenting the materials for a complete course in business-letter writing. The illustrative letters are from the files of progressive business firms. The exercises provide ample opportunity for writing letters.

# PITMAN

383 Church Street, Toronto

## THE SCHOOL PROGRESS BOOK SHELF

### THE USE OF MICROFILM IS GROWING A UNESCO SURVEY

Microfilm offers an effective solution for many of the problems of the reproduction and preservation of documents. Thanks to its use, fragile printed texts can be preserved, paper which is already in short supply can be saved, and records can be more easily stored in small rooms already crowded by an ever-growing amount of material. The fact that the microfilm process is now being commercially developed makes it more conveniently usable for archivists, librarians and businessmen.

Unesco has given close attention to this development because of the great help which microfilming can give to the spread of culture. It has, therefore, carried out a survey in Austria, France, Germany, Italy, the Netherlands, Switzerland, the United Kingdom and the United States in order to draw up the first complete inventory of microcopying equipment available on the international market.

The results of this survey have been

published in the Unesco Bulletin for Libraries, Volume VI, n° 2—February, March 1952 and n° 5/6—May, June 1952. A reprint has just been issued with the title "Unesco Survey of Microfilm Use, 1951", which lists and describes the various techniques, the cameras and readers for microfilms and microfiches, and also the materials for printing, enlargement and chemical processing. The addresses of manufacturers are also listed so that users of microfilms can obtain further information.

In order to complete on a world-wide basis its survey of the problems presented by the use of microfilms, Unesco has sent a questionnaire to sixty-three countries.

Moreover, Unesco is helping develop the use of the process through its Scientific Materials Coupon Programme which permits the acquisition of such materials despite economic and monetary difficulties.

### THIRTY THOUSAND ATTEND STOCKHOLM "GOLDEN BOOKS" EXHIBITION

The "Golden Books" exhibition of illuminated manuscripts held recently in Stockholm, Sweden, attracted some 30,000 visitors during its four-month showing. The exhibit of "Golden Books" covered a period of more than a thousand years. The oldest manuscript was the 6th century *Code Argenteus*, or Silver Bible, a Gothic translation of the four Gospels, written on purple coloured parchment in gold and silver lettering.

A most imposing manuscript was the 196-pound Bohemian *Codex Gigas*, or Devil's Bible, so-called because it con-

tains a vivid illustration of the devil. Prepared in the year 1200, the work contains the Gospels and books of the Old Testament, and also three books of ancient Bohemian legends, a historical calendar and a necrology of important figures in Bohemia in those times.

In order to create the atmosphere of a mediaeval church room, all day light was excluded from the rooms in the National Art Gallery where the exhibit was held, and tempered electric light was used which brought out the exquisite beauty of the gold and silver lettering on the parchment leaves of the ancient books.

**Building Bulletins—Schools**, United Kingdom Information Office, 275 Albert Street, Ottawa, Canada.

We have just received from the United Kingdom Information Office at Ottawa a set of very interesting books on schools and school construction in the British Isles which we think many of our readers should find useful under present conditions. These official bulletins of the British Ministry of Education contain detailed information on planning and construction of modern schools—primary, secondary and county colleges. Canadian school executives planning expansion in their own districts or systems should find these booklets helpful for new ideas particularly as they are full of diagrams. Furthermore, English architects and con-

struction engineers are quite advanced in the use of standardized building plans and materials. The titles of some of these booklets are listed below with prices which, we suggest, are quite nominal:

Building Bulletin No. 1—New Primary Schools 30c.

Building Bulletin No. 2—New Secondary Schools 50c.

Building Bulletin No. 2A—New Secondary Schools 65c.

Building Bulletin No. 5—New Colleges of Further Education 75c.

Building Bulletin No. 6—Primary School Plans 65c.

Building Bulletin No. 7—Fire and the Design of Schools 65c.

Building Bulletin No. 8—Workingham School Project 90c.

#### Manchester Library Celebrates Centenary

People in several countries participated in spirit recently in celebrating the centenary of the Manchester (England) public library. The library has become far more than a municipal institution, since Charles Dickens made the principal inaugural address one hundred years ago.

Today, this public library has over a million volumes and issues about six million a year to readers. Books are lent to people in all parts of England and abroad. Last year thousands of specially requested volumes were issued to libraries in Austria, Czechoslovakia, Denmark and many other countries.

#### Pioneers In Adult Education In Canada —Edited by Harriet Rouillard. The Canadian Association for Adult Education, 143 Bloor St. West, Toronto.

It would be a pity if the title led anyone to imagine this is a book of restricted interest. It is true, all the subjects were pioneers in adult education—but readers without the slightest knowledge of that field will find their stories just as fascinating as do those who have worked in it all their lives. For primarily this is a collection of tales about great Canadians. There is nothing high-powered here, no exaggeration—The sober truth where these men and women are concerned is sufficient to make stimulating reading.

Sixteen brief biographies of leaders in Canadian adult education are assembled here. The resulting picture probably is the most comprehensive yet to appear. The range is wide—from Alphonse Desjardins (who probably never thought of himself as an educator) father of the Credit Union movement in North America, to Rev. G. H. Levesque, O.P., the famous Dominican who in recent years has revolutionized the teaching of social sciences in Quebec. Adelaide Hoodless, founder of the Women's Institute also is here, and so is the artist Arthur Lismer. Vivid, well written, these articles provide invaluable insight into Canadian life of the past half century. They also offer memorable portraits of some great Canadians.

#### NATO—Shield of Freedom, by W. G. Friedmann. Canadian Institute of International Affairs (Behind The Headlines series, Vol. XII, No. 4), 230 Bloor St. W., Toronto.

It became evident a few years ago that the United Nations was not able to guarantee the peace and security that it was intended to provide. Canada was one of the first countries to seek some other organization to offer this security. The North Atlantic Treaty Organization is now the basis of our hope for peace in the western world.

In this thoughtful little pamphlet,

# NO QUESTION ABOUT IT...



There are more Underwood Typewriters in schools because there are more Underwoods in offices. It's only logical to train your students on Underwoods . . . the make of typewriter they will most likely be called upon to operate when they graduate into the Canadian business world.

For facts and figures write to the  
Director of School Services

## Underwood Limited

HEAD OFFICE: 135 VICTORIA STREET, TORONTO

BRANCHES IN ALL PRINCIPAL CANADIAN CITIES

Professor Friedmann—who spent the summer in Europe observing the conditions of which he writes—describes the background of the North Atlantic Treaty, explains its provisions and what they mean to Canada. He outlines the structure of the organization and discusses how this new political grouping might affect the British Commonwealth and the United Nations.

The booklet contains questions for study and discussion and a list of films on NATO and further reading material. It is a fine introduction to this important organization. These booklets have been found to be of great value to students and teachers of current events classes.

**Forward With Canada, No. 6**—Free on request to the Northern Electric Co. Ltd., Montreal or any branch office across Canada.

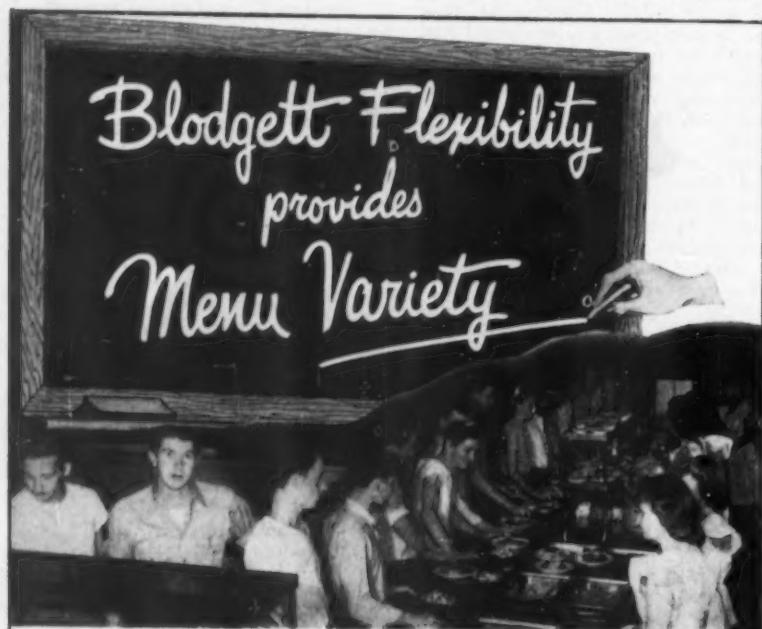
"Forward With Canada, No. 6", most recent in the series of booklets published by Northern Electric Co. Ltd. to assist teachers and others in telling the story of Canada, now is available in either English or French.

Subtitled "Harnessing the Giant", this year's booklet is dedicated to Canada's industrial progress and to the many men who have made it possible. The booklet contains five stories of accomplishment in Canadian industry drawn from the present spectacular post-war period. Written by Leonard

Knott, well-known Canadian writer of children's books, these stories illustrate the qualities of imagination, courage, skill, and determination that have been typical of Canadian industrial effort since Confederation.

A feature of this year's booklet is the insertion of "The Forward With Canada Map", a seven-color, 140-mile-to-the-inch map of Canada prepared with the permission and assistance of the Surveys and Mapping Branch of the Department of Mines and Technical Surveys. It is based on the Department's new 100-mile-to-the-inch map, the most recent and up-to-date map of Canada available.

The 32-page booklet is lavishly illustrated. The French adaptation is by Jean Robitaille, Montreal writer, whose work in the French language is known throughout Quebec.



Young healthy appetites demand nourishing meals. This modern kitchen tool is ideal for schools to keep a steady stream of oven-prepared foods flowing to the school tables . . . **THREE WAYS . . . ROASTING . . . BAKING . . . GENERAL OVEN COOKERY.** The speed and flexibility of a Blodgett Oven make it possible to cook your food to perfection and have it ready on schedule. Dietitians recognize in hot, nourishing oven-prepared meals the best means of serving a wide variety of meals at prices students can afford to pay.



#### A BLODGETT COOKS 70% OF YOUR MENU

On one large, single deck a Blodgett offers capacity for meat pies, meat loafs, baked vegetables or pastries, desserts and hot breads. Another deck roasts your meat or bakes your fish. You are always assured variety because a Blodgett can prepare as much as 70% of the cooked food on your menu.

Blodgett makes ovens from its "Basic Three" design which provides the units to make 24 models.

THE G. L. **BLODGETT** CO. INC.

Garland-Blodgett Ltd., 2236 Eglinton Avenue West, Toronto 10, Ont.

**Basic Science** by J. Darrell Barnard and Lon Edwards—Macmillan \$3.40.

Basic Science, a new and elaborate text, deals with the subject of science on the basis of everyday life, and is keyed to the junior high school grades. Its aim is to show students how science is used to improve modern living, and at the same time why this is so.

Starting with concepts familiar to the students and proceeding to larger generalizations, the text insures the interest of the students and at the same time guarantees understanding. It covers the whole general field of science as we see it at work in everyday life. The text is organized in thirteen units and thirty-one chapters. Within this framework it presents eighty specific problems, in the course of which the student is led to examine the world around him. The first unit of study discusses the meaning of science and introduces the student to the scientific method of study. Unit 2 studies earth, air and water, the physical world. Unit 3 examines the universe. Next comes the study of energy from the sun, electricity, heat, etc. and so the student is led by progressive steps to an understanding of weather, climate, personal health through biology in plant and animal life, conservation of resources, transportation and communication, and in the final chapter studies the use of materials for construction.

Basic Science is a complete book for the junior high school grades, and besides being carefully organized is fully illustrated with up-to-date diagrams and photographs and is provided with a glossary and index.

A work book is available, designed to achieve definite objectives—to help the student recognize the need for applying the scientific method in study as well as in every day life, and to help increase his skill in solving problems of all kinds.

There is also a teacher's manual which presents the philosophy of science education underlying the presentation of the text, and includes suggestions for using the text to develop and apply this point of view.



## *Closer Scheduling calls for* **IBM TIME CONTROL**



**TOWER CLOCK**



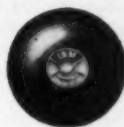
**DOUBLE DIAL CLOCK**



**WALL CLOCK**



**MASTER TIME AND  
PROGRAM CONTROL**



**SIGNAL**



**MASTER  
CLOCK**

Today's more closely coordinated schedules require perfect timing throughout your school. IBM Time Equipment can give you the exact timing you need.

Regulated electronically—clocks, signals and all other units in the IBM Electronic Time System\* operate in perfect synchronization. *No special wiring is required.* The units simply connect with your regular AC lighting line, keep accurate, uniform time to the second.

You may save money on installation and additions to this system. Units may be added or relocated without costly re-wiring. Thousands of schools, institutions, and industrial plants are using IBM Time Equipment for better timing.

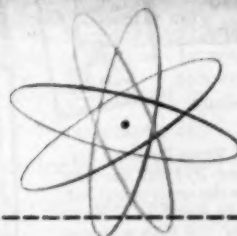
*\*Electric Time System with Electronic Self-regulation.*



*Time Control*

**INTERNATIONAL BUSINESS MACHINES COMPANY LIMITED**

Don Mills Road, Toronto 6.



IBM, Dept. S.P.,  
Don Mills Road, Toronto 6

*Please send information on IBM's  
Electronic Time System.*

Name \_\_\_\_\_

School \_\_\_\_\_

Street \_\_\_\_\_



with  
**VENUS**  
the world's finest, largest selling  
**DRAWING PENCILS**

**SMOOTHER,  
STRONGER,  
ACCURATELY GRADED**

Ask working architects, engineers, draftsmen. See how many use Venus—the pencil that holds a fine point or sharp chisel edge. The pencil that gives you opaque lines for sharp, clear reproduction. Venus Drawing Pencils are *smooth, strong, accurate* and uniform in all 17 degrees.

**GET  
THIS**  
helpful,  
illustrated  
instruction  
brochure.



**AND FREE** Venus Drawing Pencils! Send 25¢ for the brochure on the art of pencil rendering. Included is a *Venus Technical Test Kit*—with two Venus Drawing Pencils.

**VENUS PENCIL CO. LTD.**  
TORONTO, ONT.

**VENUS PENCIL CO. LTD.**  
TORONTO, ONT.

51-D-3

Enclosed is 25¢ for my copy of "Sketching with Venus"—and the *Technical Test Kit* with 2 Venus Drawing Pencils.

Name.....  
School.....  
Address.....  
City.....Prov.....

Look for  
the green  
cracked  
finish!

## SCHOOL PROGRESS NEW BOOK LIST

**All Kinds of Cats** by Walter Chandoa. More than a hundred photographs of cats with a selection of verse and prose about cats. McC & S. \$3.00.

**Allons Jouer!** by C. S. Elston. New collection of games, puzzles and quizzes in French. Grades IX and X. Clarke, Irwin 50c.

**Benny and The Birds** by Frank Ennis. The birds knew Benny's secret. Primary Grades, McC. & S. \$1.29.

**A Child's Book of Flowers** by Irma Wilde. A little book showing most of our familiar wild flowers in true colourings. 8-14 years. Ryerson. 89c.

**A Child's Book of Insects**. By Sy Barlowe. The most common North American insects illustrated and described. 8-14 years. Ryerson, 89c.

**Canada and The Americas**. By William A. Parish. A Text-Note Book built to fit the social studies course for Grade nine. Thos. Nelson & Sons (Canada) Ltd., 60c.

**Canadian Regions**—An authoritative, up-to-date geographical description of Canada from a Canadian point of view. Dent, \$7.50.

**Cargoes on the Great Lakes**, by Marie McPhedran. An absorbing book of juvenile non-fiction: Illus. H.S. Libraries. Macmillan, \$2.75.

**Crafts for School and Home**, by Stimson, Pretzman, Wade and Broady. Contains a wealth of information, new ideas and practical instructions for the teacher. Clarke, Irwin. \$3.00.

**Dead Cities and Forgotten Tribes**. By Gordon Cooper. Travel book on little-known places includes an amazing chapter on Canada. The author is president of the Globetrotter's Club. Ryerson. \$3.25.

**Documents of English History, 1688-1832**. Edited by W. A. Barker, G. R. St. Aubyn, and R. L. Ollard. The editors have chosen extracts which illustrate or expand subjects referred to in the book *General History of England, 1688-1832*. Secondary Schools. Macmillan. \$1.60.

**English by Stages**, by I. Morris. High School. Macmillan, Reading Book IV 60c.

**Famous Modern American Novelists**, by Sybil Norton and John Cournois. More than nineteen contemporary American novelists were chosen for this book. Famous Biographies Series Illus. Grade 6 up. Dodd Mead, \$3.25.

**Fedora, The Donkey**. By Kathleen Fidler. A tale of an eight-year-old boy and a donkey who could talk. 6-10 years. Ryerson. \$1.75.

**Freddy The Pilot**, by Walter R. Brooks. High-flown adventures of Freddy as a pilot involve many of his friends and enemies. Illus. Grades 3 to 6. McC. and S. \$2.50.

**General Science**—Intermediate Book I. This text follows the new Ontario

course of study in science for grade 7. Dent, \$1.95.

**Gino Watkins**, by J. M. Scott, a personal friend and fellow traveller of Watkins. Grades 10 to 12. Clarke, Irwin, \$1.30.

**Great Gales and Dire Disasters**, by Edward Rowe Snow. Epic tales of human courage and cowardice; of foolishness and foresight. H.S. Grades. Illus. Dodd Mead, \$3.75.

**The Greeks and the Romans**, by D. E. Limebeer. Drawings and maps by E. A. McLaughlin. High School. Macmillan, Part I, The Greeks, \$1.20.

**Half Pint**, by Jeanne Wilson. The story of how a small boy on a Wyoming ranch is able to earn a colt. Ages 8-14. Ryerson, \$2.50.

**He Went With Captain Cook**, by Joseph Kamm. A young Londoner accompanies Captain Cook on three of his main voyages. Grades 9 to 10. Clarke, Irwin, \$2.00.

**Heroes of Christianity**, by R. K. and M. I. R. Polkinghorne. Covering the eight centuries after Christ this is a record of the early church. Grades 7 to 9. Clarke, Irwin, \$1.10.

**Independent Schoolmaster**, by Claude M. Fuess. Direct, salty rugged autobiography of the man who made his mark as headmaster of Andover. Little, Brown, \$6.00.

**Je Parle Français**, René Gauthier. A French Workbook for new Canadians. Thos. Nelson & Sons (Canada) Ltd., 75c.

**Jennifer is Eleven**, by Eunice Young Smith. Friends and family frowned on Sir Prize, a white bull calf, as a pet for Jennifer. Illus., Grades 3 to 6, McC. & S., \$3.25.

**Journey into Wonder**, by N. J. Berrill. Story of man's discovery of the natural world around us. Illus., Dodd Mead, \$5.00.

**A Junior Catholic History of Europe, Part I,—2050 B.C. to A.D. 1500**. by Rev. Father John Jordan. Grade Intermediate, Macmillan, 50c.

**A Junior Catholic History of Europe, Part II,—A.D. 1500 to A.D. 1950**. by Rev. J. F. Kelly. Grade Intermediate, Macmillan, 80c.

**Let's Go Boating**, by Harry Zarchy. Basic how-to book for young outdoorsmen. Illus., McC. and S., \$3.50.

**Little White Foot**, by Berta and Elmer Hader. About a little field mouse and his family. Illus. Grades 1-3. Macmillan, \$2.75.

**Look! Verses and pictures** by Zhenya Gay. Baby animals for tiny readers. Kindergarten. Macmillan, \$2.50.

**Macmillan History Picture Books**, edited by E. J. S. Lay. Four books based on the History Class Pictures, each book containing 30 plates in full colour with appropriate notes for teachers, Book III, Tudor And Stuart Times;

Book IV, Hanoverian Times. Macmillan, each 45c.

The Macmillan Readers, by Gates et. al. Contains notes on the titles listed below: *All Around Me*—Teachers' Edition, \$2.35; *Tales For Today*—Teachers' Edition, \$2.55; *Here And Everywhere*—Teachers' Edition, \$2.55; *The World I Know*—Teachers' Edition, \$2.35; Teachers' Manual, Grade 5, \$1.80; Teachers' Manual, Grade 6, \$1.80; Teachers' Manual, Grade 7, \$1.80; Teachers' Manual, Grade 8, \$1.80.

Music, Movement And The Young Child, by Heather Gell. A full course in training in rhythmic movement, expressed through music. For the teacher. Clarke, Irwin, \$4.25.

My Island Home. An Autobiography of James Norman Hall. Little, Brown \$4.75.

The New Little Library Series. Size and pictures the same as the original editions, but new page designs and bright colourful jackets. Macmillan, each \$1.00.

North For Adventure, by Richard S. Lambert. Story of Hearne's search for the fabulous copper mines of the far north. Illus., McC. and S., \$2.75.

The Oldest Stories in The World. Original translations with comments, by Theodor H. Gaster. S. Libraries. Macmillan, \$6.50.

Passport For Jennifer, by Edward Ellsberg. Jennifer Harding was motherless in England. In America a home was waiting for her. Dodd, Mead, \$3.50, Grade 6 up.

Plants and Animals—Visual Science Series, Book 4—by Marie Neurath and J. A. Lauwerys. Grades 5 to 8, Clarke, Irwin.

Please Excuse Johnny, by Florence McGehee. The author tells of her experiences as a truant officer. Teachers. Macmillan, \$4.25.

Prince Curly, by Anthony Nye. The young author of *The Witch's Cat*. Grades 3-6. Macmillan, \$2.00

The Queen Adventure. By Enid Blyton. The strange adventure of a pair of twins, Peter and Mary. 6-10 years. Ryerson, \$1.50.

Rich Inheritance: A story of Catholic Elizabethan England by Winefride Nolan. H. S. Libraries, Macmillan, \$2.25.

Self Help English, by Ronald Ridout. The four books of Self Help English provides a course for post-primary pupils. Grade, Junior and Intermediate. Macmillan Book 1 60c.

The Seven Secrets of Somewhere Lake, by Sam Campbell. Forest Life Series. McC. and S., \$3.25.

The Shouting Duke. By John Reese. This tale of the adventures of Grand Duke Bello is a surprise comedy best-seller. All ages. Ryerson, \$2.50.

The Space Ship Under The Apple Tree, by Louis Slobodkin. A "science-fiction" story, with illus. Grades 5-7. Macmillan, \$2.50.

The Songs of Father Goose, by L. Frank Baum. Illustrated on the left-

# MODERN mimeographing is the BEST WAY to produce COPIES

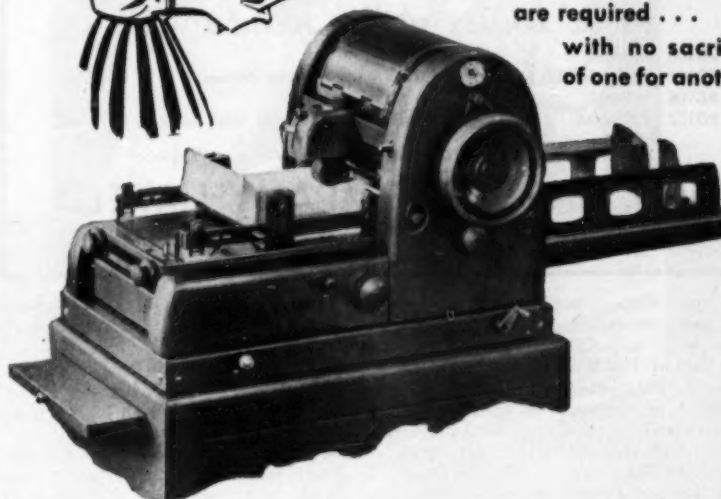


when

- SPEED
- LEGIBILITY
- EASE OF OPERATION
- VERSATILITY
- LOW OVERALL COST

are required . . .

with no sacrifice  
of one for another!



When you need COPIES, MODERN mimeographing can produce them at speeds up to 180 copies a minute . . . identical, clear, sharp, permanent black-on-white copies, or in 4 or more colors at one time. All A. B. Dick mimeographs are for use with all makes of suitable stencil duplicating products.

AND, for the last word in supplies for spirit and offset duplicating, ask about the new and different "REcessED OFFSET" plates and CLEEN-SEAL spirit master sets. You'll be agreeably surprised!



## A·B·DICK

THE FIRST NAME IN DUPLICATING

A. B. DICK COMPANY OF CANADA, LTD. • 189 JOHN ST., TORONTO, ONT.



## A COMPLETE GRADED MAP PROGRAM

Gradation of the graphic teaching aids is as important as the correct grade placement of textbooks. Rand McNally has created globes and wall maps specifically for each grade level.

### A GRADED GLOBE PROGRAM

4544E BEGINNER'S GLOBE, 12"	\$20.50 net
2244E SIMPLIFIED RANALLY GLOBE, 12"	21.25 net
3344E RANALLY PHYSICAL-POLITICAL GLOBE, 16"	40.00 net

### A GRADED MAP PROGRAM

#### BEGINNER'S MAPS

SCT Mtg. Set of 8	\$26.50 net	Set of 10	35.50 net
-------------------	-------------	-----------	-----------

#### SIMPLIFIED MAPS

SR903 WORLD	Mtg. A		
SR300 EUROPE	(Wood Rods Top and Bottom)	12.50 net	
SR101 THE UNITED STATES	Mtg. MC		
	(Spring Roller Portable Steel Board)	16.25 net	

#### SPECIAL RANALLY PHYSICAL-POLITICAL MAPS

RD300 EUROPE	Mtg. A		
RD101 THE UNITED STATES	(Wood Rods Top and Bottom)	13.00 net	
RD906 WORLD	Mtg. MC		
RD102 CANADA	(Spring Roller Portable Steel Board)	16.75 net	

Write for complete catalogue of maps, atlases, and globes.

**W. J. GAGE & COMPANY LIMITED**  
82 Spadina Avenue      Toronto 2B, Ontario

hand page with pictures of boys and girls and animals. Rhymes set to music. McC. and S., \$3.25.

**Stage Sets of The World**, by F. Sanders and A. G. Patston. Contains material for setting up dioramas of five regions of the world. (1) Tropical Jungle; (2) The Deserts; (3) The Mediterranean; (4) The Prairies; (5) The Cold Lands. Grades Junior. Macmillan 50c.

**Tales of The North Country**. By Kathleen Fidler. Excellently-told stories of British history. Illustrated. Junior. Ryerson, \$1.50.

**Tales of The Western Isles**, by Wendy Wood. Tales of the Western Highlands of Scotland. Grades 7 to 10. Clarke, Irwin, \$1.50.

**Tales**, by Edgar Allan Poe. Great Illustrated Classic. Forty-six tales including all the best known and a number of less familiar stories. Dodd, Mead, \$3.50.

**That's My Dog**, by Leon F. Whitney, DVM "Squirrel" Robinson earned his own coon dog by hard work and faith in unlikely-looking Spike. Grade 5 up. Illus. Dodd, Mead, \$3.50.

**There's Music in Children**, by Emma D. Sheehy. Tells teachers how they may bring out the natural love for music which every child possesses. Clarke, Irwin, \$3.75.

**United Nations and World Community**, by A. H. Feller. The author . . . General Counsel of the United Nations since 1946 . . . assesses the progress of the United Nations. Little Brown, \$2.75.

**The Very Big Secret**. By Enid Blyton.

A charming story of a nine-year-old pair of twins, Penny and Peter, 6-10 years. Ryerson, \$1.00.

**Wapiti, The Elk**, by Rutherford G. Montgomery. How a baby elk grows up to become the monarch of the high country. Little, Brown, \$3.00.

**We Go To Belgium And Luxembourg**, by Mary Dunn. A comprehensive tour of all the principal places of interest in each country. Grades 8 to 10. Clarke, Irwin, \$2.00.

**Winnie The Pooh Pop Up Editions**, by A. A. Milne; **Winnie the Pooh and the Bees**; **Winnie the Pooh and Eeyore's Tail**. Ages 4 to 7, \$1.50 each.

**The Wonder World of Animals**, by Marie Neurath. This is a most absorbing kind of animal story because all of it is true. Grades 5 to 8. Clarke, Irwin. Paper Boards \$1.25; Cloth Boards, \$1.60.

**The World of Numbers, Arithmetic I**, by Carpenter and Clark. (A number Readiness Book) Macmillan. **How Many (Primary Grade)**, 65c.

**The Young Queen**. By Godfrey Winn. An outstanding biography of Queen Elizabeth by the author of **The Younger Sister**. Illustrated. H. S. and older. Ryerson, \$3.25.

\* \* \* \*

**Mathematics for Canadians—Grade IX**—Bowers, Miller, Rourke and Wallace, Macmillan, Dent. \$1.90.

**Mathematics for Canadians**, a series of text books developed in an attempt to satisfy the need for text books on

mathematics adapted to Canadian schools and having the Canadian scene as background offers a new edition for Grade IX, published jointly by Dent and Macmillan. The success of this series in Canadian schools in all grades augurs well for the wide use of this revised edition for junior high school which continues the integration of the study of mathematics with the pupil's general education.

The new edition of **Mathematics for Canadians, Grade IX**, has been thoroughly revised and incorporates many changes suggested by teachers who have used the series in practical classroom work. In this edition exercises are much more numerous and the material conforms more closely to the curriculum needs of some Canadian provinces.

In this text the authors have stressed the human appeal of mathematics, a subject which owes its existence to human needs and its higher development to the unquenchable and imagination of the human mind.

**About You (Family Living Series)** by Marjorie C. Cosgrove and Mary I. Josey—Gage, 96c.

The attractively illustrated paperback booklet, **About You**, is a ready-made course in personal and social adjustment, and is particularly suitable for family living and home economics classes, for general guidance in homeroom, and for guidance classes and units.

This is Volume I of a two-volume series and covers such topics as developing a healthy personality, getting along with one's family, friends, and with the other sex, succeeding in school, solving one's problems, and planning for the future. Volume II will deal specifically with marriage and family living.

**About You** is based on the theory that teen-agers will more readily accept the ideas and suggestions of their contemporaries and so attempts to stimulate group discussion and interest by such methods as self-appraisal charts, quizzes, case studies, and thought questions. Suggested class and group activities and a list of related reading materials are also included. It is a combination workbook and textbook for junior and senior high schools.

Marjorie C. Cosgrove is Director of Family Life Education in the Highland Park Public Schools, Highland Park, Michigan; and Mary I. Josey is Director of Home and Family Living of the Berkley Public Schools, Berkley, Michigan.

#### British Package—UKIO, Ottawa

##### Ceremonial Posters

- No. 1 "The Opening of Parliament"
- No. 2 "Trooping the Colour"
- No. 3 "The Yeomen of the Guard"
- No. 4 "The King's Life Guard"
- No. 5 "Scottish Ceremonial"

##### Royal Family Posters

- "H.M. Queen Elizabeth II in Court Dress"

10" Circular Saw.



14" Band Saw.



36" Gap Bed Lath.



10" Drill Press.



24" Scroll Jig Saw.



6" Belt and Disc Sander.



It's *easier* to  
teach students on  
**BEAVER**  
POWER TOOLS



Illustrated above is the 6" Beaver Planer and Jointer.

More and more manual training instructors are finding that students learn faster . . . and produce better work when they use Beaver Power Tools. These expertly designed machines are built to stand up for years and years—even under the rough handling of beginners.

You'll find that even new students can produce smooth, clean, accurate work on Beaver Power Tools, because they are so easy to operate!

And you won't have to worry about accidents either, every Beaver Power Tool is equipped with proven safety guards.

Yes, in a class equipped with simple-to-operate Beaver Power Tools students will learn more—faster! Find out about them at hardware dealers—everywhere! Then equip your school workshop with Beaver Power Tools and make manual training easier for both your instructors and students!

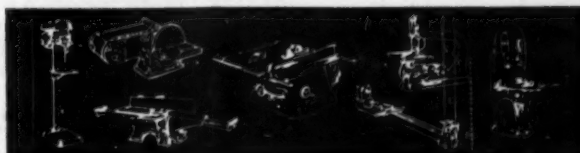
Write for FREE booklet on any one of the Beaver Power Tools.

**THE CALLANDER FOUNDRY**

**& MANUFACTURING CO. LTD.**

**GUELPH**

**ONTARIO**





## The Amazing VIEWLEX

Viewlex has done it again! Long considered years ahead in design and performance, this projector, with its advanced improvements, creates a new standard. Truly, it is an amazing model. See it, compare it.

Model V-2CL, 150 watts, \$85.00 delivered to schools; Model V-22CL, 300 watts, with 60-cycle fan, \$101.50 delivered; or for 25-cycle, \$109.00 delivered.

The latest addition to the series, V-25CL 500 watt, sets a new high in performance. 60-cycle only, delivered, \$122.00.

Case included with each model.

## Filmstrips

By Young America,  
Popular Science,  
Eye Gate, S.V.E.,  
Ryerson

Using any production of the above producers in conjunction with the new Viewlex provides a most effective visual teaching aid. The productions of these foremost producers have rapidly forged to the front, because of their technical excellence and approved subject matter.

Send for Viewlex folder and filmstrip catalogues.

If you are considering buying a projector or material, we will be glad to send the above on approval.

Canadian Distributor  
**RYERSON FILM SERVICE**  
THE RYERSON PRESS  
TORONTO

## AUDIO-VISUAL AIDS FOR THE SCHOOL

### Australia's Kindergarten Of The Air Popular In Many Countries

The "Kindergarten of the Air", a novel radio feature which Australia pioneered nine years ago, has now become a daily event in the lives of three- to six-year-olds in many parts of the world. When, for safety, all Australia's kindergartens and nursery schools were closed during the war, the Australian Broadcasting Commission agreed to produce the world's first series of educational programmes for pre-school children in their homes. Now these simple and instructive songs and stories (with little bits of advice about such matters as unselfishness, food habits and good manners) are an accepted radio feature. They are heard not only in Australia, but in other countries to which they are relayed.

### Crawley Films Story Of Northern Transportation

The story of how the Northern Transportation Co. carries freight through Canada's northland from Waterways, Alta., to the Arctic Ocean, is the subject of a film now being prepared by Crawley Films Ltd., Ottawa. A unique combination of actual footage and historic still pictures are being used in the film.

It is expected that the film will be ready for distribution in the Fall. The Northern Transportation Co. is a wholly owned subsidiary of Eldorado Mining and Refining Ltd., Canadian Government Crown Corp.

### American University's Television Courses Win Wide Popularity

Western Reserve University, in the State of Ohio, United States of America, started last autumn two courses of televised lectures in comparative literature and introductory psychology. The courses formed part of the university curriculum and finished with regular written examinations, but a much wider viewing public, many of whom had not the means for a college education, was attracted by the lectures.

Not only was there a large popular response, but comparison showed that in introductory psychology, TV students were superior as a group to students taking regular courses at the university.

In the spring, four other subjects were added to the TV courses: child psychology, fundamentals of geography, economics and musical appreciation. An established audience of 50,000 people watched courses from 9.00 to 9.30 a.m. six days a week.

The experiment turned out so well that the University decided to conduct an extra summer TV session, as well as the one planned for autumn.—*Unesco*.

### Seasons, Weather and Climate— Film Strip For Junior H.S. Jam Handy Organization

A new filmstrip series produced by The Jam Handy Organization for latter elementary and Junior High School use in "Seasons, Weather and Climate". Filmed in rich color, each filmstrip is developed logically, with enough concise, direct explanatory text to add meaning to the visualization. Simple experiments are suggested for class use, and a summary and questions appear at the end of each filmstrip.

The first filmstrip, Our Earth in Motion, shows how the rotation of the earth in relation to the sun causes day and night and gives us our measure of time. By means of an interesting experiment the revolution of the earth is shown giving us one year.

Sun and Our Seasons, the second filmstrip in the series, shows the cause of the seasons and the length of days and nights. The factors which cause the different temperatures of the seasons are developed.

The third filmstrip, What is Weather? shows the relationship of weather to the activities and occupations of man. The factors which make up the weather are presented in a manner that can lead to a worthwhile class activity, keeping a weather chart.

The fourth filmstrip, What Makes the Weather?, presents the factors which cause wind and different types of precipitation.

The last filmstrip in the series, Climate, defines the term and shows how it affects our lives. The factors which affect climate are explained.

The five filmstrips of the series are sold in an attractive book-type kit box. Seasons, Weather and Climate may be purchased from General Films Limited, Toronto and Regina.

### Television Used To Teach Physics

Students at Cornell University are now getting some of their training in basic physics from the television screen. Experiments are televised from the instructor's desk to screens which provide a "close-up" view in all parts of the room.

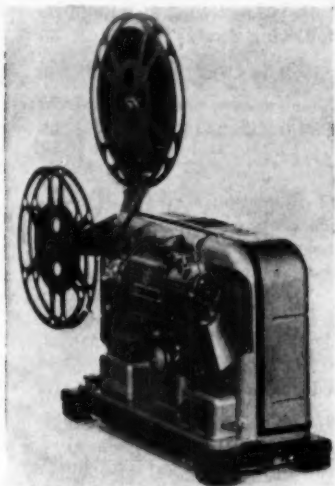
This use of television permits demonstrations impossible by ordinary methods. The method is used to explain such physical phenomena as light interference, surface tension and the behaviour of high-energy particles in a cloud chamber.

Whereas students would formerly await their turn to use the microscopes, a special midget television camera trained into one microscope, magnifies the image on the screen and makes it visible to a whole classroom.



#### C.G.E. Offers British 16 mm Projector

A precision-built 16 mm. sound film movie projector of excellent performance is now available from Canadian General Electric Co. Ltd.



Engineered and produced by the British Thomson-Houston Co. Ltd., pioneer in the field of 16 mm. sound-film projection, this machine has been designed for use in schools, industry, churches or homes.

Many unique features are incorporated in this projector (Model 301-C): snap-over refocusing for reverse emulsion film; constant tension device for smooth film take-up; adjustable shutter for maximum brilliance without flicker. These and many other features combine to give studio realism to 16 mm. film with brilliant flickerless picture and lifelike sound.

Ease of operation and maintenance are a keynote of this new projector; threading and setting up are simple with working parts readily accessible for cleaning or replacement.

Each projector comes complete with spare lamps and accessories, packed in two rugged carrying cases. A complete stock of spare parts is carried in Canada—lamps and tubes are standard Canadian types.

Further information is available from the nearest C.G.E. office.

#### Film Strip of the Month Club

Full-color for all 1952-53 filmstrip releases, free bonuses and 50% price reductions have just been announced as this year's benefits for teachers joining either of Popular Science's famous educational filmstrip clubs: The Filmstrip-of-the-Month Club for Elementary Grades and the Popular Science Filmstrip-of-the-Month Club for Junior and Senior High School Grades.

Now in its third year, and servicing thousands of science teachers throughout America, the Popular Science Filmstrip-of-the-Month Club produces a brand-new full-length, full-color filmstrip based on a current science development in a basic science curricu-

## Outstanding Professional Books

### RESEARCH IN THE TRAINING OF TEACHERS ..... \$1.95

By Henry Bowers, Principal of Stratford Normal School. In this book, Dr. Bowers describes fourteen experimental studies made by him in two of the Provincial Normal Schools of Ontario.

### EXTRACURRICULAR ACTIVITIES ..... \$5.00

By Harry C. McKown. Chapter headings in this practical teachers' book include: Financial Administration of Extracurricular Activities; Encouraging and Limiting Participation in Extracurricular Activities; The Administration and Supervision of Extracurricular Activities.

### IMPROVING INSTRUCTION THROUGH SUPERVISION ..... \$5.00

By T. H. Briggs and Joseph Justman. Here is a useful working guide for educational supervision. There are sixteen chapters, under three main topics: Principles of Supervision; Planning Organization, and evaluating the Supervision Programme; Methods in Supervision.

**The Macmillan Company of Canada Limited**  
70 Bond Street ..... Toronto



## For Band - Orchestra - Classroom

School Quotations Mailed on Request




ORDER WITH  
CONFIDENCE

J. M. GREENE MUSIC CO.  
Limited

49-51 QUEEN ST. EAST, TORONTO



Match Jumbo's Memory," Says Mr. T.



"It's easy to match Jumbo's memory when you use a Dixon Ticonderoga . . . the pencil that helps you remember! Write with the strong, smooth leads . . . see the clean legible outlines. Note the eraser firmly locked in a strong metal ferrule with double yellow bands. And it's not likely you'll forget

**DIXON TICONDEROGA**

MADE IN 6 DECADES FROM 3B TO 4H  
Order from dealer by the dozen or by the gross  
DIXON PENCIL COMPANY LIMITED  
MONTREAL • NEWMARKET • TORONTO • VANCOUVER

## School Transportation in Canada

In 1951 the Canadian Education Association issued a bulletin on school transportation which gave the following figures:

Number of pupils transported to schools in Canada .....	78,000
Number of school buses in use .....	5,000
Number of new buses bought in 1950 .....	365
Number of new buses needed per year .....	1,200

In 1941 the Alberta Department of Education states that there were 150 buses transporting pupils to schools in that Province. By 1950 this number had grown to 1,049 and the statement is made that by 1955 there will be at least 1,500 school buses transporting pupils to schools throughout the Province.

In the Ontario Minister's report of 1950-51 the following report was made on transportation:

Number of pupils transported to schools in Ontario .....	50,000
Number of buses in use by Ontario schools .....	1,000

The latest figures available on Ontario for 1951-52 are as follows:

Number of pupils transported to schools in Ontario .....	60,000
Number of separate transportation routes .....	2,267

On these routes vehicles travel an average of 105,000 miles a day. There is no figure available at present on the number of school buses in use.

It will be noted that these figures for Alberta and Ontario make the original figures of the Canadian Education Association look rather conservative.

To get a larger picture of the development of schools throughout Canada note the above report on the rapid growth of our school population.

lum area each month. Each of the ten filmstrips is accompanied by a completely illustrated Teaching Guide. Upon joining, members receive without charge an extra bonus of a full-color, full-length science filmstrip (with Teaching Guide) and are assured the 50% discount rate for the entire school year regardless of any possible increase in manufacturing cost. Cancellation of membership is possible at any time without obligation.

Based on the success of its Junior and Senior High School science filmstrip club, Popular Science has now launched the second of its clubs, the Filmstrip-of-the-Month Club for Elementary Grades. Each month from September 1952 through June 1953, this Club will produce a new full-length, full-color strip in a basic Social Studies area, linked to a topic of timely interest. Teachers joining this club also receive an extra bonus filmstrip without charge, and are guaranteed the 50% discount rate for the entire year.

First 1952-1953 elementary Filmstrip-of-the-Month Club release will be Our President, the September filmstrip.

This 50-frame, color strip explains conventions, nominations, functions of the Executive Branch, elections, etc., and shows original photographs of the newly renovated White House. Appearing at the peak season of an election year, this new filmstrip will admirably relate current news to fundamental Social Studies concepts.

Teachers wishing to do so may join either club at any time, receiving back filmstrips and bonuses upon joining. For further information, contact the local Audio-Visual dealer or write direct to Popular Science at 353 Fourth Avenue, New York 10, N.Y. Fee for 1952-53 membership in either club is \$30.00 complete.

### The Museum of Modern Art, New York, Produces Filmstrip and Slide Series

Beginning this fall, the Herbert E. Budek Company, Inc., 55 Poplar Avenue, Hackensack, New Jersey, will act as distributor for black and white filmstrips and slides based on the photographic archive of the Museum of Modern Art Library, New York.

The following titles, which are offered for the first time in the form of

filmstrips and sets of slides, represent an initial group of ten, to be supplemented later in the year by others.

The material will be offered in four editions: Edition A—single frame filmstrips for self-mounting of 2 x 2 slides. Edition C—glass-mounted 2 x 2 slides. Edition D—glass-mounted 3 1/4 x 4 slides. Each strip or slide series will provide, in addition to 35 to 40 picture frames, a brief preface, essential captions, and a selected reading list.

**M B 1 American Painting: Its Evolution in Modern Times.**

**M B 2 European Painting: From Post-Impressionism to the Present.**

**M B 3 Modern Sculpture: From Rodin to Henry Moore.**

**M B 4 Modern Architecture: The Development of Design in Space.**

**M B 5 Industrial Design: Origin and Contemporary Practice.**

**M B 6 Interior Decoration: Current Trends and Master Designers.**

**M B 7 Materials of the Artist: Series 1, Painting.**

**M B 8 Museum Techniques: The Design of Exhibitions, Installation and Lighting.**

**M B 9 Religious Art of Today: Works in Europe and America.**

**M B 10 Timeless Aspects of Modern Art: Comparative Analysis of Old and New Works.**

**Better Reading—16mm Colour or B. and W. Film**

With the problem of faulty reading coming more and more to the fore throughout business and industry and schools, Encyclopaedia Britannica Films, Inc. has released its new film, "Better Reading".

The film is designed to aid victims of poor reading habits by showing them how to correct their difficulties. It is aimed at supplying motivations for good reading as well as at the mechanics on how to do it.

"Better Reading" thus answers one of the most persistent needs in school, college and industry for some method of correcting reading faults without expensive retraining. It shows, by taking a senior with problems arising from his failure to read adequately, how the objective can be attained at home—and why it is important.

Almost every production device available in the extensive facilities at EBF was used in photographing the faulty eye-movements which frequently block reading. Single-frame photography was used to show the amount of reading matter taken in by eye movements.

"Better Reading", available in both color and black and white, is another link in the growing chain of EBF films on reading. These begin in the primary grades with the famous Film Reader units and now go through the adult levels. Others are planned for the intermediate grades.

**Elementary Grades Social Studies Filmstrips—Popular Science Pub. Co.**

Popular Science Publishing Company has just announced release of four new filmstrip series for elementary grades: Growing Up; Exploring Canada; How Colonial America Began; and Looking At The Earth We Live On. All filmstrip series have been pre-tested by curriculum experts and are now ready for distribution.

The first of the new series, Growing Up, developed in co-operation with Childcraft, is designed for use in Grades 2, 3 and 4. Consisting of six filmstrips, each full-length and in full color and each accompanied by a fully-illustrated Teaching Guide, this series shows children how to develop manners, courtesy and desirable character traits such as self-reliance, responsibility, sharing, etc.

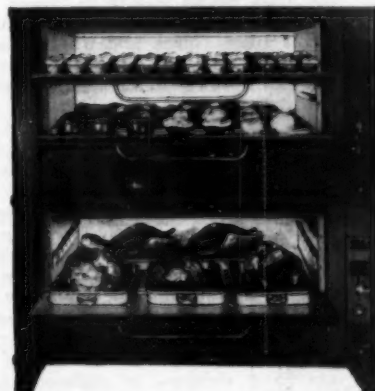
In the area of American History, the second of the new series, How Colonial America Began, depicts the stirring story of the Colonists' struggles to establish a new democracy. All in full-color, for Grades 4, 5 and 6, the six strips in this series are: The New England Story, The Middle Colonies, The South Begins, Home Life in Col-

**BLODGETT FLEXIBILITY PROVIDES**

**MENU VARIETY**



You can roast, bake and do general oven cookery in a Blodgett oven because of its flexibility and capacity. Each section is separately controlled for proper heat. Foods requiring different temperatures are cooked in different decks at the same time; meat might be roasted in one section at 300°F; baking done in another at 425°F; and general oven cookery in still another at 350°F. A Blodgett is continually producing for you because it can take care of as much as 70% of the cooked food items on your menu.



**BAKING**

One deck holds twelve 10 in. pie tins or two 18 x 26 bun pans.

**COOKING**

One deck holds as many as 116 casseroles or comparative capacity.

**ROASTING**

One deck has capacity for five 25 lb. turkeys or equal capacity.

**All at the Same Time!**

Blodgett makes ovens from its "Basic Three" design which provides the units to make 24 models.

THE G. L. **BLODGETT** CO. INC.

**Garland-Blodgett Ltd., 2256 Eglinton Avenue West, Toronto 10, Ont.**

onial Times, Earning a Living in the Colonies and Democracy Begins in America. A completely illustrated Teaching Guide accompanies the series at no extra charge, along with a sturdy file box.

Also for Grades 4, 5 and 6, Looking At The Earth We Live On presents a detailed picture of the physical geography of our country, with six full-length filmstrips in lifelike color: Oceans and Coasts; Lakes and Rivers; High and Low Lands; Our Lands and Waters; Weather and Seasons; Climate and Plants. Both an illustrated Teaching Guide and a permanent file box come with the six strips at no extra charge.

The last of the new series, Exploring Canada, Richard Nelson Travel Strips, is also in full-color throughout and consists of four 45-frame filmstrips: Canada from Coast to Coast; Fishermen and Farmers of Canada; Industrial Canada and Home Life in Canada. All photographs are original, having been made specially for these new filmstrips in present day Canada. An illustrated Teaching Guide and sturdy file box come with the series at no extra charge.

To obtain further information, see your local Audio-Visual dealer or address communications to Popular Science Publishing Company, 353 Fourth Avenue, New York 10, New York.



**JUST PUBLISHED**  
**The Bible You**  
**Must Have**



More accurate, easier  
to read, yet preserves  
the beauty of the  
King James Version.  
\$6.00.

In genuine leather,  
\$10.00.

**RSV**

Revised Standard Version of the Bible

**THOS. NELSON & SONS**  
(Canada) Limited

**Telenews—Weekly News Review**

In response to an increasing number of requests for newsreels from school systems all over the country, Telenews is making its "Weekly News Review" available for school use at a nominal rental charge.

Telenews, the largest producer of television news films, prepares the "Weekly News Review" specifically for use on TV. However, a series of use-tests during the 1951-52 school year by social studies instructors has shown the weekly issues to be valuable in current events and civics studies. Each week's release is made up of news stories filmed in all parts of the world by Telenews camera staffs. Delivered on 16-mm. film, each issue is in essence a carefully-edited 15-minute summary of the international news highlights of the week.

Details may be obtained from Richard Milbauer, Telenews Productions, Inc., 630 Ninth Avenue, New York 36, N.Y.

**Introduction to the Globe—Colour Filmstrip—General Films**

"Introduction to the Globe", a new colour filmstrip series produced by The Jam Handy Organization, develops the beginning concepts of the globe from a child's viewpoint.

Designed to pave the way for future skill in globe and map reading, these five filmstrips present basic understandings of the earth in space. The type used is especially chosen for ease of reading, and the series is planned to stimulate further individual interest and group study.

In the first film, Continents and Oceans, meaning is put into concepts of the size and roundness of the earth. The globe is established as a representation of the earth. The relationship of the land and water is shown. Continents and oceans are identified.

The filmstrip, Up and Down, clarifies the concept of the earth in space by pointing out how it differs from a globe. By simple and familiar illustrations, it shows the meaning of up

and down in relation to the people on different parts of the earth.

In the third filmstrip, North, South, East and West, the equator and poles are located on the globe. They are shown as unmarked places on the earth. Their meaning is established in relation to the earth. The four directions on the globe are introduced and related to the classroom situation.

The fourth filmstrip, Night and Day, starts with earth movements visible to a child, and shows the spinning of the earth in space. By means of a simple experiment the concept of night and day is developed, both in relation to the earth in space and to us on the earth.

The last filmstrip, Hot and Cold Places, shows the relationship of the heat from the sun with the directness of its rays. The temperature belts are introduced, showing how the temperature affects the lives of the people living in each belt.

The five filmstrips of the series are sold in an attractive book-type kit-box.

**Rules and Laws—16 mm. Motion Picture**

The necessity of law in guiding society — with consequent improvement of classroom morale and co-operation — is brought home to children of middle grade social studies in "Rules and Laws," new Encyclopaedia Britannica Films 16mm. black and white release.

With a running time of 14 minutes, the film shows how rules channel energy to a common goal; how they are made for the benefit, rather than the restriction, of people; and why they (the rules) must be responsive to changing conditions.

The principal point made, by using homely examples of children playing with toy railroad tracks, is that laws are necessary if society is to function. Just as the toy trains unsteered by the track go wild, so does society unsteered by law go wild.

This concept is fitted into family life by using children of different ages and different social adaptation. Where one child of the appropriate age conforms, a younger child does not, and the results are shown with the graphicness available only in motion pictures. A consequence is the development in the student of civic-mindedness.

"Rules and Laws" was produced by Ritter, Young, Lerner Associates, and is being distributed by EBF. Prior to production, extensive research was done in various parts of the country on the curricula involved. Scripts were carefully reviewed by leading educators and child psychologists. Available from all Canadian Audio-Visual Aid supply houses.

**Religious Films Catalogue**

Just released is a new Religious Films catalogue, published by Benograph division of Associated Screen News Limited. The new catalogue lists 16mm sound films available from the

# COACHES!

Contact Your Canadian

## VOIT DISTRIBUTORS

Full Information, Prices and  
Fully Illustrated Catalogue  
sent on Request.

**THE HAROLD A. WILSON**  
COMPANY OF TORONTO LIMITED

299 Yonge St., Toronto 1  
Empire 4-0381

head office library in Montreal, indicating subjects which are available from each of the Benograph branch libraries in Toronto, Winnipeg and Vancouver.

Subject headings include Bible Stories, Missionary, Sermon Films and Discussion Films. A large proportion of the films listed are from the religious subjects produced by the J. Arthur Rank Organization in England.

Related subjects of interest to religious groups are also listed in the catalogue under the following headings: For Better Personal Living, For Better Family Living, For Richer Fellowship and Community Living, For Mission Studies, For Nature Study, For Understanding Our Religious Heritage, For Children's Programmes.

**What Are Your Problems?—Life Adjustment Education Filmstrip—Science Research Associates**

A new 55-frame Life Adjustment Education filmstrip, "What Are Your Problems?", has been produced by Science Research Associates, Chicago 10. Third in a special filmstrip series, this visual aid is based on results of a survey of 20,000 teen-agers throughout the country.

"What Are Your Problems?" is designed for use in guidance and teacher-training activities. It points out the chief difficulties that face youth today, discusses possible solutions, and shows that these personal, social, and scholastic problems worry young people everywhere.

Previous Life Adjustment Education filmstrips produced by Science Research Associates are "You and Your Mental Abilities," and "Discovering Your Real Interests."

don't just hope for  
**Voit quality**

play **Voit**  
 and be sure



**XB20**

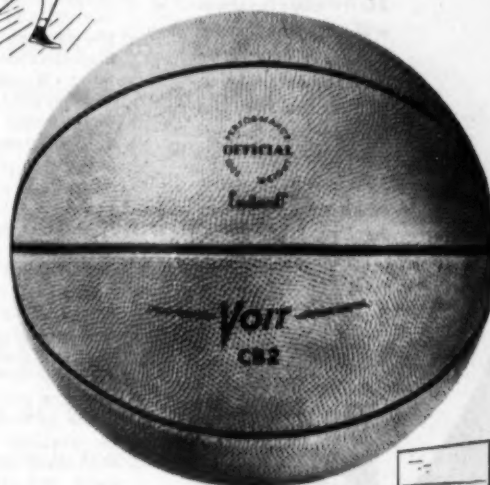
America's finest basketball for indoor, championship play. Official for all games upon mutual consent of competing teams.

Collegiate stars, outstanding coaches, school buyers tell us, "Feature for feature, game after game, Voit is tops. You ought to build the best. You originated the rubber-covered basketball. You were making championship basketballs before most of your competitors were in the rubber-covered ball business."

**Voit basketballs cost so little**

Voit Basketballs cost no more and yet last from 3 to 6 times longer than any other type. The extra games you get from Voit pay off your initial investment.

*Try them all and you'll know why Voit is best*



**CB2**

Favored by schools for 16 years for rough indoor or outdoor play. Sanctioned for official high school competition.



**Voit®**

NEW YORK 10, CHICAGO 10, LOS ANGELES 11

*America's Finest Athletic Equipment*





AND  
**C-O-TWO**

Most fires don't have to happen! 9 out of 10 fires—say authorities—could be prevented by "good housekeeping", and proper precaution.

**BUT**—carelessness will, somehow, creep in, so it is wise to be prepared. And, against the fire that does not have to happen, but could happen, even to you, make sure you have the best in fire protection equipment—Pyrene and C-O-TWO.



*Pyrene*

A size and type for every fire hazard. Order through your Pyrene—C-O-TWO Jobber.

91 East Don Roadway, Toronto

**SALES AND SERVICE IN ALL THE PRINCIPAL CITIES OF CANADA**

## MANUFACTURERS and EQUIPMENT NEWS

### General Catalog 5205

Just off the press is South Bend's new 88-page General Catalog 5205. This catalog illustrates, describes and gives specifications of all South Bend lathes, shapers and drill presses. It also shows the complete line of South Bend attachments, chucks, tools and accessories.

Several of South Bend's latest machine tool developments are featured for the first time. These include a new type pedestal tool grinder plus many tools and attachments for South Bend lathes, drill presses and shapers.

Shop men and purchasing agents will find this new catalog a handy aid for solving their machine tool needs. Copies may be had from any South Bend distributor or by writing directly to A. R. Williams Machinery Co. Ltd., 62 Front St. W., Toronto.

### How to Line Gym Floors Folder Offered by Huntington

A handy 6 page folder containing needed information on how to line new and old basketball courts . . . the proper preparation and care of gymnasium and other wood floors . . . and the correct use of floor finishing and maintenance products, is now available from Huntington Laboratories, Ltd. The pamphlet is entitled "The Key to Gymnasium Floor Finishing." It is authentic and quotes all official basketball rules which affect the painting of basketball court lines. It reflects the years of experience Huntington floor specialists have had in refinishing and maintaining gymnasium and general floors of all types.

The information contained in this pamphlet is explained in an easy-to-understand way, using diagrams and cartoons where possible to further simplify it. Use of the material it contains can prevent many costly mistakes in floor maintenance and should be available to every one connected with your school maintenance department and athletic staff.

Write for your free copy . . . Huntington Laboratories, Ltd., Toronto, Canada.

### How to Plan a School Workshop

"How To Plan A School Workshop," is the title of a booklet offered by Delta Power Tool Division of Rockwell Mfg. Co., Dept. SW-D14, Pgh. 8, Pa.

This 40-page booklet contains 30 illustrations of practically-arranged school workshops located throughout the U.S. A line drawing, showing the actual layout of each shop, accompanies and explains each illustration.

Also included is a section called "How To Best Arrange the Individual Machines In the School Shop So That the Most May Be Obtained Out Of Each Unit." In addition to the many

tips contained in the copy, a line drawing of each machine shows the best position for proper lighting, sufficient work area, and ample aisle space.

A bibliography gives 15 sources from which to secure ideas for ideal shop planning while an extensive listing tells of operating manuals, classified projects and home workshop floor plans available.

Formerly \$1.00, Booklet AD 596, a valuable aid to the Industrial Arts instructor, is now offered free of charge. Cooper & Horton, 1758 Dundas St. W., Toronto.

### Vinyl Floor Tile

A vinyl resin and asbestos fibre flooring material of the type so popular in the U.S.A. is now being marketed for the first time in Canada by Building Products Limited.

B. P. Vinyl Flortile is made in 9" x 9" tiles 1/8" thick, and is reported to be easier to maintain and more durable and attractive than conventional floor coverings. In addition, it is claimed to be impervious to grease and most acid and alkali solutions. As it can be laid directly over concrete, on or below grade, as well as on suspended floors, it is ideal for use in homes with concrete slab floors as well as for basement rooms.

The product is being offered in eight colours, and is popularly priced. Direct mail campaigns have already been run, and consumer advertising and full colour promotional literature are planned.

The manufacturers state that B.P. Vinyl Flortile has been extremely well received by the building industry, and expect an even more enthusiastic reception from the public.

Further information can be obtained by writing P.O. Box 6063, Montreal.

### Steel Scrap Shortage Possible

Some, but not all, of Canada's expanding steel plants may run short of scrap steel this winter unless the flow of scrap speeds up this fall, the Canadian Scrap Iron Steel Committee announces.

The committee, representing major steel producers, foundries and scrap dealers, is keeping a close watch on scrap movements so that the drive for industrial and farm scrap can be intensified should the supply situation deteriorate.

Those mills whose part in the Canadian steel industry's \$100,000,000 expansion program is reaching completion on schedule are particularly anxious to stockpile enough prepared scrap this fall to feed their new furnaces during the normal winter slowdown in scrap shipments.

Steel industry representatives stressed the fact that dormant steel



equipment that could be scrapped should be sold now to scrap dealers who have the equipment and know-how to prepare it properly for purchase and use by steel mills.

Scrap is normally about half the melting stock used in modern efficient steelmaking, the other half being pig iron. It is estimated that each ton of prepared scrap used conserves about four tons of iron ore, coke, limestone and other natural resources.

#### South Bend Lathe's New Rotary Table

Now going into production is South Bend Lathe's new Rotary Table. Designed for mounting small precision work, it can be used on a drill press, milling machine, shaper or surface



Machining slots with Rotary Table on shaper.

grinder. Accurately spacing drilled holes, indexing clutch teeth, milling circular grooves or T-slots, machining square and hexagon shapes—these are just a few of the many operations that can be performed on this versatile Rotary Table.



South Bend Lathe's Rotary Table.

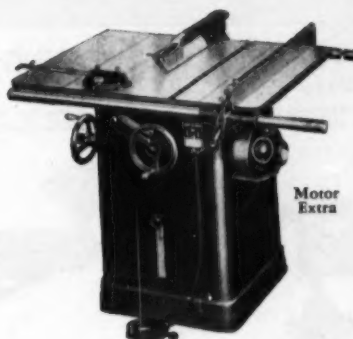
The precision ground work table measures  $4\frac{1}{2}$ " in diameter and three T-slots are provided for clamping the work. The table is rotated by worm gearing having a graduated collar and ball crank. Each graduation indicates a table movement of 3 minutes and one complete revolution of the ball crank turns the table 5 degrees. A small knurled thumbscrew permits easy resetting of the graduated collar to zero.

## COOPER AND HORTON

Present

### DELTA

#### 10" Tilting Arbor Unisaw



Motor Extra

- Rips to centre of 50" Panel
- Cuts stock  $3\frac{1}{8}$ " thick
- Has Table 27" x 36"

*Ideal For Instruction or Maintenance*

Your **DELTA** Distributor  
**MILWAUKEE**

## COOPER AND HORTON

1758 Dundas St. W. — Toronto, Canada

*"It doesn't cost to enquire"*

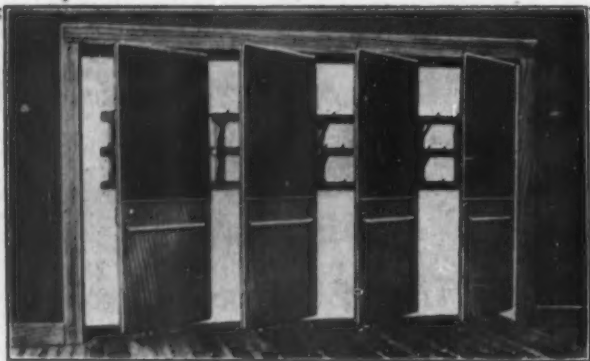
The edge of the table is graduated 360 degrees and a handy clamping lever locks the table in any position. Equipment includes eight work clamping bolts with nuts and washers.

Complete specifications may be had from any South Bend distributor or by writing directly to South Bend Lathe, or to A. R. Williams Machinery Co. Ltd., Toronto.

#### New Hendry School Catalogue

The Hendry Division, Central Scientific Co. of Canada Limited, has just issued an attractive new catalogue listing its complete line of school furniture, equipment and supplies.

The book is bound in a bright red cover carrying a simple but very pleasing design, and is especially notable for the clear manner in which items are arranged by sections. These sections divide furniture, chalkboards and accessories, maps, globes and charts, general classroom supplies, handicraft materials, papers and kindergarten materials in such a way as to make reference to individual items very easy. In addition, every item bears a number to facilitate identification. Schools which have not received their copy of this new catalogue should write to Central Scientific Co. of Canada Limited, Hendry Division, 146 Kendal Ave., Toronto 4, Ontario, without delay.



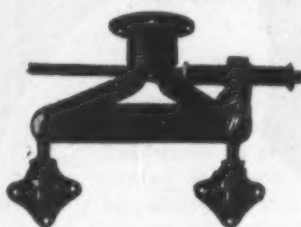
## DOOR HARDWARE FOR DISAPPEARING WARDROBES

### SAVES SPACE

Placed side by side for adjoining rooms, saves up to 1' 6" over old style cloak-rooms.

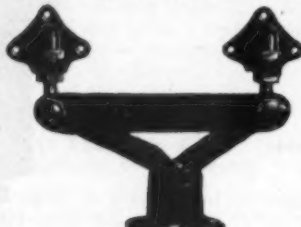
### ADDS SECURITY

Petty pilfering is eliminated — under teacher's supervision at all times.



No. 778  
HARDWARE

Cuts  
Show  
Upper  
and  
Lower  
Units



No. 778 Standard Specification with Leading School Architects across the Dominion

**Richards-Wilcox**  
CANADIAN COMPANY LIMITED

LONDON, ONTARIO

Moncton Montreal Toronto Hamilton Winnipeg Edmonton Vancouver

### Appointed Sales Supervisor

John H. Lauman appointed a sales supervisor for Gordon A. MacEachern Floor Finishing Specialists with headquarters in London, will cover middle western Ontario, where he has been a familiar business figure for a number of years. To his thorough knowledge of floor finishing techniques, Mr. Lauman will add the complete line of MacEachern materials and equipment they manufacture or supply for the complete care of industrial and institutional floors.

### Electric Potter's Wheel

Crafttools, Inc., announces the introduction of a new "crafttool"—a variable speed electric potter's wheel, which embodies many features to make the unit almost a complete ceramic shop.

The Crafttool follows through all phases of ceramic work, as, wedging, throwing, banding, sanding, grinding—except the firing. By adding a few simple attachments, the Crafttool becomes a complete gem-cutting shop, and performs all phases of lapidary work from rough sawing to final polishing.

While basically a potter's wheel, the Crafttool with the addition of a few accessories, becomes a belt sander, disc sander, drill, ball mill, air compressor, grinder and flexible shaft. In addition, the Crafttool has one constant and two variable speed shafts which

give the user a range of 40-1800 r.p.m. The speeds are regulated by a foot and/or lock-hand control.

The Crafttool has been especially designed to be quiet, sensitive and smooth running. Though portable and small enough to fit into a closet, there is no sacrifice in capacity. The Crafttool is built to meet the exacting requirements of schools, camps, hospitals, shops and professionals, yet is simple enough for the hobbyist to master.

Catalog is available from Crafttools, Inc., 401 Broadway, New York 13, New York.

### Neoprene Floor Matting

G. H. Wood's "Traffic Master"—Neoprene floor matting with a longer life span, is claimed to solve some of the worst problems of industrial safety, maintenance, installation, and floor matting problems. Wood's "Traffic Master" is a Neoprene matting with many times the durability of natural rubber and yet no more cost. The hardness of this matting comes from its exceptional resistance to grease, oil, heat and abrasion—its heat resistance is great enough to allow washing with live steam. The matting is not affected by sea air or sea water and is both non-porous and non-absorbent. In addition to a remarkable sturdiness, "Traffic Master" is constructed for maximum under-foot safety, portability, flexibility and appearance.

Under-foot safety is assured by rugged non-slip, non-trip surface corrugation and by its flexibility which fits it to the contours of uneven flooring. Flexibility also lends itself to easy moving or cleaning, but flexibility in Neoprene does not result in swelling, curling or buckling. "Traffic Master" is available with perforations for use where conditions require good drainage. The exceptional strength of "Traffic Master" helps to retain the original trim appearance longer.

### New Screen For Three Dimension Projection

Three dimension projection has brought the greatest advancement in recent years towards the goal of showing truly lifelike images on a screen. As a result, interest in stereo projection has become widespread.

There were several problems that had to be overcome with the special screen needed for stereo projection. One difficulty was to design an absolutely flat and tight projection surface to obtain bright pictures with full depth. Other obstacles were to get a durable projection surface, and to design a screen that would be fast and simple to set up.

Radiant Screen Corp., Chicago, is now manufacturing the "Stereo-Master", a new portable screen that clearly brings out the depth of three dimension pictures. Brilliant pictures are obtained on an aluminum treated surface that is made perfectly tight and flat. This fabric tension is produced by the "Tensi-Lock", a simple ratchet device.

The projection surface rolls out of its protective metal case, enabling the screen to be set up in less than a minute. The "Stereo-Master" is available in sizes of 40" x 40" and 50" by 50".

### National Health Week Feb. 1-7, 1953

Canada's ninth annual National Health Week, which is scheduled for next February 1 to 7, will aim at making all Canadians in every walk of life aware of the fact that their own and their neighbors' health is of vital personal concern to them. The slogan reads: "Health is your business".

"We want to focus attention on health in the widest possible sense," asserted Dr. Gordon Bates, general director of the Health League of Canada, in announcing the dates of the big educational drive. "None of us can escape the effects of sickness wherever it occurs in our community or in this country. We cannot live unto ourselves alone."

National Health Week is essentially a public education program. It seeks to pack into seven days enough facts, figures and ideas to make Canadians health-conscious the whole year round. To do this successfully, the Health League of Canada is enlisting the active cooperation of individual citizens and of voluntary and official organizations from coast to coast. Remember the date—February 1-7, 1953.

# APSCO PROUDLY PRESENTS . . .

the two latest models which have been added to the famous APSCO line of fine pencil sharpeners. Both models are now ready for delivery. Write or contact your local APSCO dealer today.

The beautiful Chicago Deluxe Model 51 sharpens all standard size pencils and sells at the same price as the discontinued Chicago Model.

The Giant Deluxe Model 51, at the same price as the discontinued Standard Model, contains the revolving centering disc that takes six different size pencils and wood case crayons. This feature makes it ideal for use in plants, offices and schools.

Both of these beautiful models are finished in blue-grey, hard-wearing lacquer, with receptacle frame and steel plate handles of nickel-plate for high quality appearance. They are, like all APSCO models constructed of a durable steel alloy and contain other outstanding APSCO features such as Lock-Tite receptacles and the famous APSCO positive pencil point stop, which guarantees a perfect point every time.



APSCO  
CHICAGO DELUXE  
MODEL 51



APSCO  
GIANT DELUXE  
MODEL 51

ApSCO wishes each and every one of you a very



**Merry Christmas and a Happy New Year**



Automatic Pencil Sharpener Co. of Canada Ltd.

43 Yonge Street

Toronto 1, Ontario

REMEMBER THE APSCO TRADE MARK IDENTIFIES THE WORLD'S FINEST PENCIL SHARPENERS



## How Many Classrooms Will One Set of PAKFOLDS Darken?

PORTABLE  
PAKFOLDS  
SERVE  
BEST...  
COST  
LESS!



PROTECTED BY PATENTS

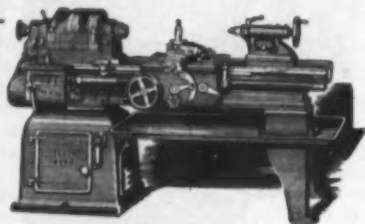
Portable PAKFOLDS make every room a visual education room! One set of PAKFOLDS serves throughout the building. PAKFOLDS attach instantly . . . no ladders to climb; no screws or complicated mechanisms. Available for large or small windows, in any length or width.

Write today for complete information and a Pakfold cloth sample!

**LUTHER O. DRAPER SHADE CO.**

P.O. BOX 391

SPICELAND, INDIANA, U.S.A.



## PRACTICE MAKES PERFECT

South Bend Precision Lathes have a proven record of dependability in precision cutting. They stand up to constant use with minimum maintenance.

Completely practical for shop requirements, they make ideal training machines for vocational and technical schools.



Consult your nearest A. R. Williams office . . . for complete information and illustrated literature.

THE  
**A.R. WILLIAMS  
MACHINERY**  
COMPANY LIMITED

HALIFAX MONTEAL OTTAWA TORONTO WINNIPEG CALGARY VANCOUVER VICTORIA

## • INDEX TO ADVERTISERS •

DECEMBER, 1952

Amalgamated Electric Corporation Limited .....	19
Automatic Pencil Sharpener Co. Limited .....	61
Blodgett, G. S. Company .....	46, 55
Boston Pencil Sharpener Co. Limited .....	12
Callander Foundry & Mfg. Co. Limited .....	51
Canadian General Electric Co. Limited .....	11
Canadian Industries Limited .....	17
Canadian Johns-Manville Co. Limited .....	4
Cooper & Horton .....	59
Curtis Lighting of Canada Limited .....	7
Crane Limited .....	3
Crystal Glass & Plastics Limited .....	10
Darling Brothers Limited .....	6
Dixon Pencil Co. Limited .....	54
Dominion Oilcloth & Linoleum Co. Limited .....	8
Dominion Sound Equipments Limited .....	5
Donnelly, James T. Company Limited .....	20
Draper, Luther Shade Company .....	62
Edwards of Canada Limited .....	21
Electro-Vox Inc. ....	9
Gage, W. J. Co. Limited .....	50
Garland-Blodgett Limited .....	13
Greene, J. M. Music Co. Limited .....	53
Hendry Division, Central Scientific Co. of Canada Limited .....	43
International Business Machines Co. Ltd. ....	47
Interlake Tissue Mills Limited .....	16
Luckett Loose Leaf Company Limited .....	12
MacEachern, Gordon A. ....	II Cover
Macmillan Co. of Canada Limited .....	53
Mimeograph Company Limited, The .....	49
Minneapolis-Honeywell Regulator Co. Limited .....	22
Moyer School Supplies Limited .....	18
Murray, Alexander & Company Limited .....	14
Nelson, Thomas & Sons (Canada) Limited .....	56
Pitman, Sir Isaac & Sons (Canada) Limited .....	44
Pyrene Manufacturing Co. Limited .....	58
Remington Rand Limited .....	41
Richards Wilcox Canadian Co. Limited .....	60
Ryerson Press, The .....	52
Standard Tube and Ti Limited .....	III Cover
Tallman Bronze Co. Limited .....	12
Underwood Limited .....	45
Venus Pencil Company Limited .....	48
Voit, W. J. Rubber Corp. ....	57
West Disinfecting Co. Limited .....	15
Williams, A. R. Machinery Co. Limited .....	62
Wilson, Harold A. Company Limited .....	56
Wood, G. H. & Company Limited .....	IV Cover

## SCHOOL PROGRESS

Editorial and Business Offices

57 Bloor Street West

Toronto, Ontario

SCHOOL PROGRESS

# STAN-STEEL

## SCIENTIFICALLY DESIGNED

# School Furniture



Above is pictured a modern school cafeteria equipped with "Stan-Steel" nesting chairs and tables.

Give every student the advantage of scientifically designed classroom furniture. The "Stan-Steel" fully-adjustable desk has a rigid tubular steel frame and is built in two sizes to accommodate students from first grade to university.

Size No. 1: Desk height of 23" — 26", seat height of 12 $\frac{1}{2}$ " — 14 $\frac{3}{4}$ " and seat to desk clearance of 11 $\frac{1}{2}$ " — 13 $\frac{1}{2}$ ".

Size No. 2: Desk height of 27" — 30", seat height of 15" — 18" and seat to desk clearance of 13 $\frac{3}{4}$ " — 15 $\frac{3}{4}$ ".

The name "Stan-Steel" is your guarantee of the finest in modern classroom furniture.

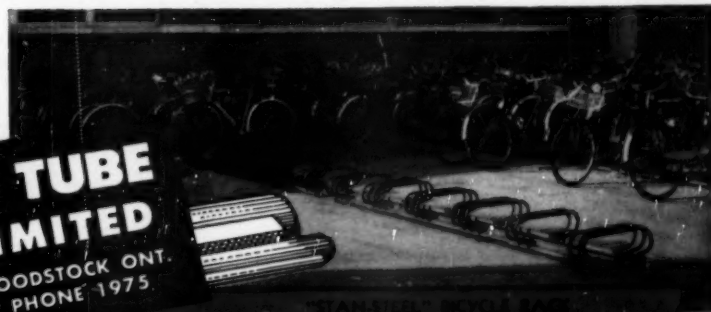


**STANDARD TUBE  
AND LIMITED**

HEAD OFFICE  
AND PLANTS AT



WOODSTOCK ONT.  
PHONE 1975



"STAN-STEEL" BICYCLE RACK

The "Stan-Steel" Bicycle Rack is built of 12 inch x 12 inch steel pipe and is equipped with welded loops for hanging up to 12 bicycles. The rack, 18 feet long and 24 inches wide, weighs 150 lbs.

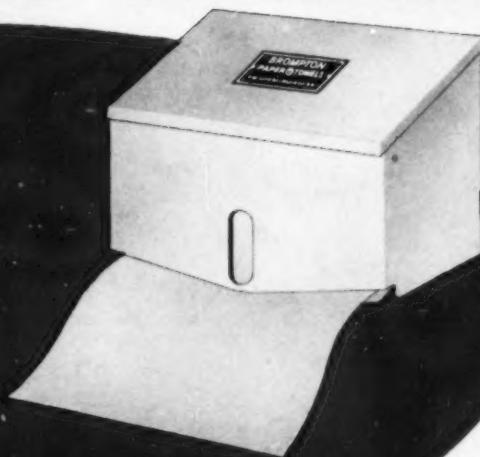
**3**

**GOOD  
REASONS  
FOR  
USING**

# **BROMPTON K-20**

*Kraft* **PAPER TOWELS**

- 1 Economical**
- 2 Absorbent**
- 3 Sanitary**



Made in Canada by St. Lawrence Corporation Limited, Montreal, Que. Mills located at Dolbeau, East Angus and Three Rivers, Que., Nipigon and Red Rock, Ont.

**G. H. WOOD & COMPANY LIMITED**

**SANITATION FOR THE NATION**

**• BRANCHES THROUGHOUT CANADA**